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SETTLEMENT REPORT

OF THE

DISTRICT OF MOOZUFFERNUGGER,

INCLUDING

A REPORT ON THE PERMANENT SETTLEMENT OF THE WESTERN PERGUNNAHS OF THE DISTRICT.

Published by Authority.

ALLAHABAD:

PRINTED AT THE NORTH-WESTERN PROVINCES' GOVERNMENT PRESS.

1873.

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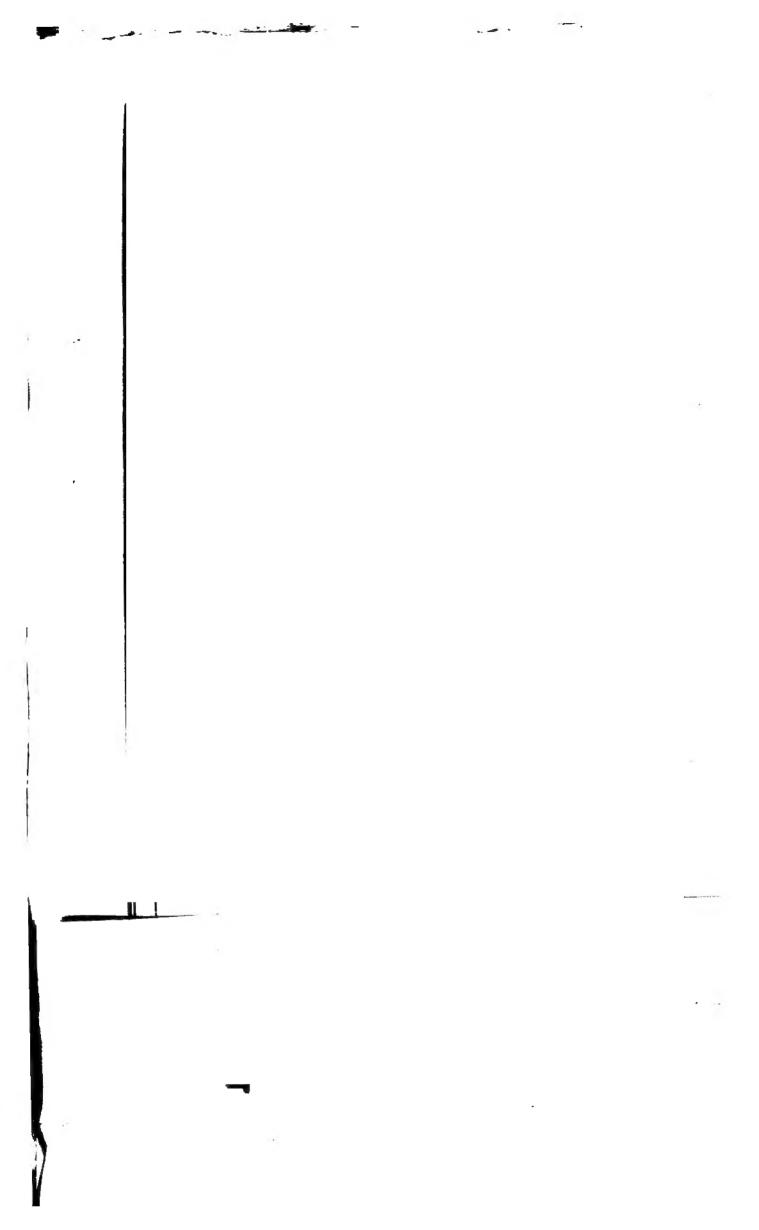




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REVIEW

OF THE

MOOZUFFERNUGGUR SETTLEMENT REPORT.

No.

of 1873.

FROM

A. COLVIN, ESQUIRE,

Secy. to the Board of Revenue, N.-W. Provinces,

To

.C. A. ELLIOTT, ESQUIRE,

Secretary to Government, N.-W. Provinces.

DATED ALLAHABAD, THE 12TH DECEMBER, 1878.

SUE DEPARTMENT.

Present:
in J. Inglis, C.S.I.,
and
.Raid, Esquire.

Sir,

I AM directed by the Board of Revenue to submit, for His Honor's information

Bugrah.
 Shikarpore.
 Boorhanah.
 Churtawul.
 Thannah Bhowan.
 Jhinjanah.
 Bedowlee.
 Kandlah.
 Kyranah.
 Shamlee.

† Khutowlee.
Bhooma Sumbhuihera.
Bhokurheeree.
Poor Chuppar.
Moomffernu ggur.
Jansuth.
Goordhanpore.

and orders, the Report on the Moozuffernuggur Settlement, with a review of the results in the ten* pergunnahs marginally noted. The remaining pergunnahs, † the re-settlement of which as effected in 1863-64 has been cancelled, and of which the re-assessment under Mr. Cadell is now in progress, will not be noticed in this review. Government in G. O.

No. 2158A., dated 5th December, 1872, suggested that the Settlement of a portion of the Gordhunpore Pergunnah should be considered with that of the western half of the district, and should come up with it for confirmation. But the Board propose to instruct Mr. Cadell to report on Gordhunpore with the other pergunnahs now under revision. It is quite distinct from the western portion of Mozuffernuggur and the statistics of former and present Settlement should be reviewed by Mr. Cadell before they are taken up by the Board. This review Mr. Cadell can incorporate in his report on the rest of the Eastern Pergunnahs.

- 2. The arrangement of the Volume of Reports, printed some years since, is confusing. But the Index now affixed to it will show the page at which the reports of the several officers will be found, with the nature of the contents of each paper. It is too late now to recast the volume. It commences with the Commissioner's review, forwarding to Government Mr. Martin's final report of the completion of the work. Some previous enquiries made by Mr. Martin regarding the mode of introducing a Permanent Settlement follow, and immediately after these, at page 33, is Mr. Martin's final completion report. Then follow pergunnah reports; the report of Mr. Keene, the Collector who preceded Mr. Martin, on the result of his share of the work being printed at page 87. At 117 will be found correspondence between the Collector and the higher authorities on the exceptional cases of two Pergunnahs, Bedowlee and Gordhunpore; and at page 128 a Memorandum by the Assistant Settlement Officer on the expediency of making the Settlement of Bedowlee permanent. Finally, there have now been printed and attached to the volume Mr. Cadell's papers on the Permanent Settlement of the pergunnahs under review.
- 3. The Settlement of Moozuffernuggur lapsed in 1861: and in April, 1860, Mr. Keene was appointed Collector of the District, and charged with the completion of a new Settlement. Mr. A. Colvin and Rai Nanuck Chund were attached to the District as Assistant and Deputy Collectors respectively in the Settlement Department. The summer of 1860 was spent in preparing for the measurements to take place in the ensuing cold season. These were carried on during the following three years, and completed in the cold weather of 1862-63. In March, 1862, Mr. Keene went to England

Arrangement of Rep

Officers concerned in

on furlough, leaving much of the measurements and assessments completed, and made over charge of the District to Mr. Martin. In May, 1862, Mr. Charles Grant was appointed as a second Assistant Collector in the Settlement Department, and Mirza Vicar Ally Beg, a second Deputy Collector. Mr. Grant was transferred to Meerut in March, 1863, and Mr. Colvin to Bijnour in January, 1864. The work subsequent to that date was carried on singly by Mr. Martin, with the aid of the Deputy Collectors. It consisted in arranging for the introduction of a Permanent Settlement under the orders of 1867, and in completing the Settlement records. The Commissioner's final report was received by the Board in January, 1867. In 1868, Sir William Muir re-opened the question of the assessments, cancelled the entire work done by Mr. Charles Grant, and most of Mr. Martin's, and instructed Mr. Cadell (recently appointed to the district, with a view of concluding operations necessary to the introduction of a Permanent Settlement) to revise the assessments of the seven pergunnahs

Martin's and Mr. t's work condemned. tance of present re-

Khatowlee,
Jansuth.
Bhooma Sumbhulhera.
Poor Chupar.
Moozuffernuggur.
Gordhunpore.
Bokurheree,

marginally noted. This work is still in progress, and Government having recently expressed a wish that the Board's review of the Settlement remainder of the district should not await Mr. Cadell's report on the result of his revisions, the Board submit the required review.

4. The District of Moozuffernuggur lies between latitude 29° 10'-29° 50', longitude 77° 6'-78° 10'. It covers an area of 1,646 square miles, and contains 1,044 villages and 1,122 estates. The population numbered 690,082 by the census of 1872, or 415.9 to the square mile, of whom 498,950 are Hindoos and 191,132 Mahomedans—251,971 agricultural, and 438,111 non-agricultural. In 1865 the population was returned at 682,212. The district is bounded on the north by Saharunpore, on the south by Meerut, the Ganges and Jumna severally flanking it on east and west. The Ganges and Jumna Canals traverse it from north to south, and the metalled road from Meerut to Roorkee runs through the district. When the settlement was made, the line of railway from Meerut to Umballa, which now taps the district, was not talked about. Unmetalled roads connect the town with Bijnour and Saharunpore, and a third road running from the station of Moozuffernuggur to Shamlee by the bridged Hindun river joins near the latter town the old Kurnal and Meerut road, now little used, and in disrepair.

5. Besides the two main rivers are the Hindun and Kalee Nuddee, which coming from Saharunpore pass on parallel to each other, and with an average distance between them of about 10 miles, towards Meerut, thus forming in the centre of the district a tract to which canal-water has not yet penetrated. The Solanee river empties itself in the north-east over the low lands of Goordhunpore lying on the Ganges, and forms a huge and unhealthy swamp. The principal towns and markets are those of Moozuffernuggur, Thannah Bhowan, Jelalabad, Jansuth, Boorhanah, Meeranpore, Jhinjanah, Shamlee, Kandlah, and Kyranah, with a population in 1872 as here noted. Jansuth

* Moozuffernuggur, 10,642
Jansuth, ... 6,117
Shamlee, ... 9,177
Kandlah, ... 5,117
Kyranah, ... 17,772
Thannah Bhowan, 7,486
Boorhanah, ... 6,162
Meeraupore, ... 5,924
Jelalabad, ... 6,904
Jhinjanah, ... 5,116

and the decayed town of Bedowlee are the seats of an old Syud family, whose ancestors were powerful in the reign of Furokhsir, from whose Prime Minister, Abdullah Khan, they claim descent. The Bedowlee family held office before annexation in Oudh, where the head of it, Mahomed Hossein, was a Nazim, and his nephew, Mehndee Hussun, a Chukladar. Mehndee Hussun saved the lives of some fugitives during the mutiny, and received

a pension and an order to leave Oudh, and keep himself quiet in his jungles at Bedow-lee. Here, with the aid of Government, he set himself to fix a colony of Bowreeas, and extend the wretched cultivation of the desolate Goojur tract in which his lands lay. But the attempt has not proved very successful. He also obtained a Rajbuha from the Eastern Jumna Canal, and if, as is now probable, the Settlement of this tract is sanctioned for the full term of 30 years, and Mehadee Hussun supported in his efforts to improve his estates, and consequently the Bedolee pergunnah, the Government, at the next revision of assessment, should get from it an increase of revenue in some measure proportionate to its natural capacity.

ulation. Communi-

Character of population

- 6. The population of the district is various. Goojurs hold the river villages, grazing their own and stealing their neighbours' cattle, and leading the idle life they love. Inland are many villages of Rangurs (Mussulman Rajpoots), little different from Goojurs in their habits of life. Scattered among these are communities of Jats, Syuds, and Sheikhs. In the southern pergunnahs of the Doab of the Kalee Nuddee and the Hindun the Jats are very numerous, Rajpoots occupying the northern tract chiefly. Throughout the district the Mahomedan element is decidedly strong; and to an ear accustomed to the Hindeeised-Oordoo of the more eastern districts; the use of Persian phrases even by the commonest people of Moozuffernuggur is very striking.
- 7. The exports of the district consist chiefly in grain, rice, and sugar, all of which are very extensively grown. The sugar principally finds its way to the Punjab, rice and grain passing in a south-eastern direction. The traffic to the Punjab has been for the most part diverted from the west of the District to Moozuffernuggur, where it proceeds via Saharunpore to Jugadree, Umballah, &c.; the exports from Moozuffernuggur, which are understood to equal those from Meerut or Saharunpore, being steadily on the increase. The Ganges and Eastern Jumna Canal irrigate largely: the comparative areas irrigated by the Eastern Jumna Canal in 1838-39, 1862-63, and 1872-73, being as follows:—

Area irrigated by Eastern Jumna Canal.

		Petgun	nah.			1838-39.	1862-63.	187 2-73.
		· · · · · · · · · · · · · · · · · · ·				Acres.	Acres.	Acres.
Shamlee,	n.	#1	•••	194	•••	j	10,721	10,584
Churthaol,	•••	•••	•••	•	800		2,709	8,198
Kandhluh,	•••		•••	•••	•••		17,610	14,768
Shikarpoor,	•••	•••	••	"	201	[]	498	2,850
Boorhanah,	***	•••	•••	•••	•••		2,147	354
Bughrah,	•••	•••	***	***	•••	} 19,18T	4,212	3,896
Thana Bhowan,	•••	***	***	•••	•••		7,492	6,048
Jhinjhanah,	•••	***	59.0	***	•••	1	6,472	5,248
Bidoulie,	•••	•••	•••	•••	•••			165
Kyranah,	•••	•••	•••	•••	•••		4,728	6,164
			Total,	•••	•••	19,181	56,534	\$3,220

8. When settlement operations commenced in 1860, the district was in a state of great depression. It had taken a prominent part in the disturbances of 1857, and had suffered terribly in consequence. The Sheikhs of Thannah Bhowan had specially distinguished themselves, had resisted and defeated our troops, and had organized and carried out a massacre of our officials at the neighbouring town of Shamlee. All over the district Goojurs and Bangurs had taken the opportunity of anarchy to pay off old scores against each other. "The return of 1866," writes the Commissioner, "confirms the fact shown in the revised settlement returns, that when the revision was in progress there was a marked diminution of the agricultural population, as compared with the number in 1853." This he ascribes partly to the disturbances in 1857. "Many were killed in fights among the people themselves; many absconded, and have settled in other parts of the country; and an inconsiderable number fell in engagements with the troops." The non-agricultural population, he adds, was less affected, because in the anarchy the large communities were not so open to attack as small villages, and could be helped by the authorities. "Thannah Bhowan is a city of empty houses. A few Sheikhs prowl about their old mohulla. The Rajpoots, the original zemindars, still hang about the outskirts, but there is scarcely a house in the Mussulman quarter which is not Government property." (Page 131, para. 3.) Acres upon acres of excellent land

State of the District in

in the Thannah Bhowan Pergunnah lay uncultivated. Many of the leading men, notably the Thannah Bhowun Kazee, had disappeared; the Pergunnah was exhausted for the moment, and in much distress.

But in November of 1860, the year in which the settlement commenced, it was evident that more trouble was coming. There had been a very bad rainy season, and while the autumn crops were very poor, there was every prospect of a failure of the wheat. It was an anxious time, and ill adapted for judging of the ordinary assets and agriculture of the district. Mr. Keene indeed proposed to defer settlement operations for a short time, but this was not thought necessary. More emigration set in. The decrease of population, referred to by the Commissioner "principally occurred," he says, "owing to the famine. In spite of the exertions made to save life and support the distressed population, there is no doubt that a large number died of destitution and consequent sickness; many removed to districts not affected by the drought; and though perhaps most of these have returned, some remained in their new homes." Colonel Baird Smith, in his narrative of the famine, has drawn a graphic picture of the misery of the famine tract, and the exodus caused by the distress. More land fell out of cultivation. and in most villages the quarters occupied by the miscellaneous castes, which in one or another capacity serve the community, were emptied. Government allowed liberal auspensions and remissions of revenue; but the large balances hanging over the heads of the proprietors discouraged and disheartened them. The season itself was bad enough, but they knew in many cases that in addition to the present revenue the tehseeldar was waiting to carry off the fruits of the next year or two's labour in satisfaction of the outstanding balances of the mutiny. The year 1861, the second year of the settlement which had begun so ominously, was to end worse. For in the rains cholera appeared, and swept over the western pergunnahs of the district. The town of Jhinjanah was sepecially attacked; but the whole district suffered.

10. The sketch here given of the state and circumstances of the district will place before Government the position of affairs at the time when the revision of settlement was entered on. In the 33rd and following pages of the volume will be found a full narrative by Mr. Martin of the course of settlement operations. It is unnecessary to recapitulate the story of their progress, and the Board may pass on to the results of the survey, vis., the comparative area at the former and the present settlement of the several pergunnahs now under report:—

Comparative areas.

			Parrame	C-14		C	ULTIVATED	
Pergunnahs,	Total,	Barren.	Revenue- free.	Cultur- able.	Fallow.	Irrigated.	Un- irrigated.	Total.
Bugrah, Former,	55,4 6 0. 56,605	7,978 6,363	1,190 1,090	6,858 4,875	2,239	89,4 18,896	434 23,142	39,484 42,038
Shikarpore, { Former, Present,		10,867	1,980	6,999		43,9		43,953
		8,487	1,118	4,707	1,216	21,208	27, 279	48,487
Boorhanah, { Former, Present,	50,49 2 51.074	9,495 8,428	1,004 848	6, 3 27 5,067	1,454	83,6 18,518	16,764	33,66 6 35,28 2
Churtawal, Former,		9,540 6,659	1,774 539	7,192 5,213	2,284	39,8 15,173	, ,	39,586
Thannah Bho- 5 Former,	56,997	4,764	10,254	11,618		30,8	361	44,849 80,861
		9,24 <u>9</u> 5,186	8,910 7,592	5,127 17,429	6,619	19,698	7,994	27,692 29.575
Jhinjanah, { Former, Present,		9,040	7,080	14,066	4,920	19,308	5,703	25,011
Shamlee, { Former, Present,	65,018 64,767	9,798 11,191	1,022 922	8,446 5,797	1,402	10,086 31,223	35,666 14,232	45,75 2 45,455
Bedowlee, Former,		7,662 11,101	3,925 3,425	17,611 14,987	5,559	24, 14,068	807 6,476	24,807 20,544
Kandlah, Former,		8,179 9,669	7,482 2,127	5,143 5,391	636	15,060 38,806	31,539 11,523	46,599 50,329
Kyranah, Former, Present,		5,783 6,301	4,226	16,135 14,782	1,794	818 24,935	28,298 8,707	29,116 33,642
Total, { Former,		·	40,449	103,758	28,058	267,846 221,833	95,503 150,996	362,849 372,829

Famine of 1860.

Cholera of 1861.

11. The proportions in which the several classes of land make up the total area, and the percentages of irrigation and cultivation at either settlement, are these:—

Percentage of sever classes of areas.

Pergunnahs.		Percentage of barren.	Percentage of reve- nue-free.	Percentage of culturable.	Percentage of fallow.	Percentage of irricated on total cultiva- tion.	Percentage of dry on total cul- tivation.	Percentage of cultivation on assessable.
Bugrah, {	Former, . Present,	14·8 11·2	2·1	12·3 8·6	3.9		 55·1	85·1 85·5
Shikarpore, $\left\{ \right.$	Former, Present,		3 I 1.7	10-9 7- 8	 1·8	 48·7	 56·3	86.3
Boorhanah, {	Former, Present,		1·6	12-5 9-9	 2·8	 52·4	 47°6	84·1 84·4
Churtawul, {	Former, Present,	16·4 11·2	8·0 •9	1 2:3 8:8	 3·8	 34·2	65.8	84·6 85·5
Thannah {	Former, Present,	8 ·3 1 6 ·0	17·9 15·4	20·3 8 ·9	 11:4	 71·1	 28:9	72·3 70·2
Jhinjanah, {	Former, Present,	8·6 15·5	1 2-6 11-7	29 1 23·3	 8 I	77·1	 22-9	62 ·9 56·8
Shamlee, {	Former, Present,	15·0 1 7·2	1·5 1·4	12·9 8·9	 2 ·1	22°0 68°6	78-0 81-4	84 ·4 86 ·3
Bedowlee, {	Former, Present,	14·1 19·9	7: <u>9</u> 6:1	32·6 26·9	 9-9	 68°4	 31·6	58•4 49• 9
Kandlah, {	Former, Present,	12·1 14·1	11·1 8·1	7·5 7·9		82·8 77·1	67·7 22·9	90·0 89·3
Kyranah, {	Former, Present,	10·3 10·9	7·6 1·9	29·2 25·6	29	2·8 74·1	97·2 25·9	64·3 67·8
Total, {	Former, Present,	13·5 14·5	6·8 4·5	17·6 18·4	4.7	59.5	40.5	77·7 77·5

12. The percentage of increase or decrease in irrigation (so far as figures are forthcoming) and of cultivation in each of the above pergunnahs is:—

Percentage of increase or decrease in cultivation

								Percentage of increase in irrigation.	Percentage of increase or de- crease in cul- tivation.
Bugrah,	•••	•••	***	•••	· •••	•••	•••	•••	+ 6.6
Shikarpore,	•••	•••	•••	•••	•••	•••	•••	•••	+ 10.8
Boorhanah,	•••	•••	•••	•••	***	•••		***	+ 4.8
Churtawul,	•••	•••	•••	•••	•••	•••	•••	•••	+ 12.0
Thannah Bha	awun,	•••	•••	•••	***	•••		•••	8.7
Jhinjanah,	•••	**	•••	***	•••	•••		***	- 15·4
Shamlee,	***	***		•••	•••	•••	•••	209-5	 ·6
Bedowlee,	•••	***	•••	•••	•••	•••		•••	— 17:1
Kandlah,	int	•••	•••	•••	•••	•••		157-6	+ 80
Kyranah,	***	•••		•••	•••	•••		2,948-2	+ 15.5

13. These figures show at once the pergunnahs in which the occurrences of the past few years had left their most marked traces. In Thannah Bhawun cultivation had decreased 8.7 per cent., and only 70 per cent. of the assessable area was cultivated. In Jhinjanah there was a decrease of 15.4 cultivation, 56.8 only of the assessable area being under cultivation. In Bedowlee cultivation had fallen 17 per cent., and less than half the assessable area was under cultivation. In Kyranah, though the Eastern Jumna Canal had covered since the last settlement an immensely increased area of irrigation, 67.8 per cent. only of the assessable area was at time of settlement under the plough. The fallow in these pergunnahs was excessive, and the population for the time being much below the ordinary standard. At the same time the Pergunnahs of Shikarpore, Kandlah, and Shamlee were extremely flourishing; and the fever, which has spread so seriously of late years over the canal tract, had but

Remarks on the above

^{*} The figures of the former settlement are in many cases wanting.

recently attracted grave attention. The villages protected by irrigation had made

Flourishing.

Shikarpore,
Boorhanah.
Shamlee.
Kyranah (in part).
Kandlah.

Depressed.

Thannah Bhawun.
Jhinjanah.
Bedowlee.
Churtawal.
Bugrah.

large profits by the famine prices. The southern part of the tract, between the Hindun and the Kalee Nuddee, was largely protected by numerous and very fine masonry wells. The flourishing and depressed pergunnahs may be classed as in the margin. It will be better to take them separately, and to indicate the nature of

their soil and population, with the relative assessments of the two settlements, and then to contrast as a whole the results of the former and the present settlement.

Mode of assessment lopted by Mr. Keene.

14. The assessment of the tract comprising the former, or flourishing portion of this area, was made by different officers with rates of assessment formed on similar but not precisely identical methods. Mr. Keene explains his scheme in the following words:—

"It was found that there were features attaching to the management of the land in this district which might be made of peculiar service in gauging the value of any property under examination, the chief of which I beg leave briefly to describe:—

formed but an imperfect index in Moozuffernuggur, both by reason of the considerable prevalence of corn-rents, and of the arbitrary character of the results. Moreover, however well the soil might be classed, there remained this objection, that it only showed the state of the tillage during an exceptional period, when properties dependent on rain were nearly deserted, while canal villages were the scene of an unusually stimulated cultivation, caused by the high prices of produce. Land not under cultivation at the time of measurement would not of course be described (otherwise than as it might be "old" waste, or "new"); and thus, if A. were a Baranee estate, the malgoozar would have an opportunity of enhancing his poverty, as much as his neighbour of B., on the canal would be subjected to an undue exhibition of prosperity, which would dwindle when the return of seasonable rain should send back to A. the cultivators who had left it for temporary employment on B.

"None of these objections applied to a classification of rents, according to the customs locally obtaining.

"Rents in this district are of three kinds. For certain articles it is usual to take payment from the tenant in cash, at rates varying according to the article produced,

Rs. a. p. ... 17 Sugar, per acre, 0 8 Cotton, ditto, 8 Maize, ditto, Fodder, ditto ditto, ... 8 0 This last article consists N. B. joar (Holcus sorghum) grown thick, usually called churree. mand.

and the greater or less fertility of the soil and other similar conditions. These articles are noted in the margin, with their average rates of rent, taking one part of the district with another. Such rents are called *zubtee*, for what reason I am unable to say. The total amount, as above stated, is about equal to the Government de-

"The second description of rents is that usually taken in kind or at estimated value for all the other kind of crops, including the whole produce of the spring harvest, as also the millets, joar, and bajra, when grown for food. The proportion taken is, for the most part, rather less than half, though the full moiety is taken in some instances. This is called nijtaree.

"The third kind of rent occurs where the habits or exigencies of the malgoozars lead them to farm out patches of land to cultivators, often from other estates, who pay

Six beegahs equal one acre.

from eight annas to two per local beegah* all round, whatever they may grow. This goes by the name of tushkhees, or fixed assessment. And when, as sometimes happens, this system prevails

throughout an estate, we learn to a close approximation the value of the assets, and can assess, nearly or entirely, upon the rent-roll (vide Thomason's Direction to Settlement Officers, paragraph 52).

"Otherwise we only reach that portion of the rent which may be paid in money, i. e., the zubtee, and whatever tushkhees there may exist, and the problem of ascertaining the value of the property is on the whole still unsolved; for the great difficulty, of course, is to learn the average amount of the nijkaree rental in such estates, in which very often the cultivation is almost exclusively in the hands of the proprietary community. Vide Government Order No. 857, It has been admitted by superior authority that the dated 1st July, 1856, paragraph 7: annual putwarree's papers are not capable of adoption as the jumabundees of settlement. How untrustworthy they sometimes are I had an opportunity of showing in 1860, in the notorious case of Mouzah Bhynswal, Pergunnah Shamlee, where little more than a tenth part of the profits was entered in the nikasee of 1267 Fuslee.

"In order, however, to obtain a minimum capability for purposes of comparison, these papers were utilized as follows:—The total area and rental for five years being added up, and the latter divided by the former, a produce rate is obtained, the application of which to the cultivated area at the time of survey (adding any excess of new waste over and above the quinquennial average) gives the net produce according to the putwares's record. In order to check the tendency to under statement, which is found to be universal, other plans were adopted; among them, an excellent one suggested by Mr. Auckland Colvin, which we call the reybundee, and which may be thus described:—Retaining the quinquennial average of zubtee produce, which is founded on recorded money rates, nijkaree average rates for the whole district are formed by the application of Mr. Thornton's appraisement to the mean quinquennial area devoted to the various nijkaree crops. The result is added to the zubtee, and the total far exceeds (in a majority of cases) that obtained from the nikasee rates. To render this estimate still more complete, I have caused it to be reckoned at the average prices current of each article for the ten years immediately preceding the great drought.

"As, however, the necessity of filling up the No. III. Statement involved the classification of soil, and as this method undoubtedly furnishes a very useful standard of comparison, another estimate was formed by applying Mr. Thornton's circle rates to the classified area during the year of survey. This method is free from the objection applicable to the last named, which is founded on a district average of fertility; whereas, if the classification of soil be but correct, the application of the rates of a properly selected circle really shows the exact state and value of the cultivation, during the year under review, at the old revenue rates. To bring this into conformity with the other estimates, from 25 to 33 per cent. must be added, according to what there may be reason to believe was the Settlement Officer's principle of assessment. And it having been found that the average price of wheat has lately been ruling much higher than it did in 1840, it has to be remembered, in examining the No. III. valuations, that a further addition of about a quarter will be required to give a fair jummabundee in all estates where no special reason may be shown in the remarks for a lenient jumma. In the Pergunnah of Boorhanah, the estimate thus formed is more than usually fallacious, because, not having been settled by Mr. Thornton, it had no rates available for expressing the supposed value of the different classes of soil but those of Mr. Thornton's nearest circle, and this had no necessary bearing on the question. This estimate, therefore, here, and in the estates of other parts similarly situated, was scarcely regarded at all in assessing; and the only way of giving reliable data in the No. III. Statement has been to add the rental classification below that prescribed. Thus, in Nusseerpore, we find the total value (according to the rates of the nearest chuck, that of Shoron) to be 890, while the jumma is Rs. 773 and the canoongoe's doul 918, or more than the whole assumed value. The lower entries, however, show that the value assumed was in fact Rs. 1,086, on which my proposed jumma of Rs. 535 becomes reasonable, and the former jumma is shown to have been

excessive. So in Shadubur, the rental, according to soil, is Rs. 1,782, the jumma being Rs. 1,380. My assumed value was Rs. 2,254, and my proposed jumma is Rs. 1,131.

"Local knowledge, and careful investigation of the rent-rate, compared with the records of the Act X. files, will suggest many clues to the valuation of assets; and a pergunnah rate will be ultimately framed for irrigated land, and a second for the dry land. The application of this to the respective total areas forms a pergunnah jumma, the distribution of which over the various estates will be checked by constant reference to the other estimates, and its discrepancy in particular cases will supply hints for study on the spot.

"Finally I have found in working after such men as Elliott and Thornton, that a proportional increase on their jummabundees, with a due allowance for the advance of prices since their day, will often yield a sum curiously corresponding to the results of other, and quite independent, estimates.

"To illustrate the nature of these operations, I would beg examination of the subjoined specimen estimates taken from a number of estates which have no canal irrigation, and where the breaking up of new land, and the rise of ruling prices, are the only changes which have occurred since settlement:—

" Poor Baleean (Jumma Rs. 4,834).

<i>I.</i> —	Nikasee	rates.	•		II.—Mr. Thornton's re				
"Zabtee,	•••	•••	Rs.	3,215	•••	Rs. 3,215			
" Nijkaree,	•••	•••	"	5,97 5	•••	,, 10,775			
			•			-			
			"	9,190	***	,, 13,990			
			_						

[&]quot;III.—Circle rates, Rs. 11,004.

"Mr. Edwards left it on record that this estate would bear a 'material increase of jumma.' This opinion is borne out by all but the first estimate, although the second, or reybundee, formed on Mr. Thornton's rates, is in excess of the others. This is readily accounted for on visiting the property, which, after a minute and protracted examination, proved to contain a great deal of land of a quality below the average fertility. The jumma, therefore, though it should be raised, should not be so high as the second estimate would appear to indicate. Next let us take Nizampore (jumma Rs. 600)—I., Rs. 841; II., Rs. 1,240; III., Rs. 1,205; IV., Rs. 1,168; V., Rs. 1,205. Here, again, the nikasee estimate fails us, but the others keep well together. The estate is of fair fertility, and is known to have borne the jumma well, the obvious inference being that it should be retained; the mean of the estimates, if we reject the first, being 1,204."

Mode of assessment adopted by Mr. Colvin.

- 15. Mr. Colvin, assessing as a rule on the main lines of the system above explained, varied his system with the peculiar circumstances of the pergunnah assessed. In Bedowlee, with its huge uncultivated area, the assessment was based on an all-round rate on the cultivable land. In Thannah Bhowan, apart from its depopulated and temporarily depressed state, exceptional difficulties presented themselves, arising from the peculiar time in which the measurements were made. It was the year 1860-61, when cultivation was almost confined to irrigated tracts: when consequently a comparatively small area was cultivated; but in the smaller area the proportion of richer crops was exceptionally large. Rents in Moozuffernuggur being largely paid in kind, it was necessary to correct these proportions. In Shamlee, Kyranah, and Kandlah the manured land was peculiarly dealt with; and the paragraphs concerning the mode of assessment adopted may be here cited:—
- "Distinction was in Shamlee first made between land actually irrigated in the year of measurement—land not irrigated that year, but capable of, and in other years

[&]quot;IV.—At pergunnah rate, Rs. 12,380.

[&]quot; V.-Proportional increase, Rs. 10,433.

receiving, irrigation—and bona fide unirrigated land. The second and first kinds had hitherto been classed together, and an offset made against the average assumed to fall into the second class. Now, however, they were carefully distinguished. Irrigated rates were applied only to the area actually irrigated in the measurement year, and the two other classes were assessed at the unirrigated rates. The object in assessment being to ascertain the outturn of one year, irrigated rates applied to land unirrigated in the year of measurement would have assumed a greater average of better crops and of the better kinds of crops than actually was the case. Where this second class (moheeta) was larger than could be fairly accounted for, and above the circle average, I summarily included a part of each kind in the irrigated area. Similarly, and on the same principle, manured land was divided into land manured the year of measurement, and manured previous years, or for next year's crop. On the first only were manured rates laid, the rest being classed as rosles. These distinctions were valuable for assessment, and, while subjecting to irrigation rates only the irrigated area, show, for statistical purposes, the whole area capable of irrigation. This plan was pursued in Pergunnahs Shamlee, Kandlah, and Kyranah, and will explain the entries of moheeta, meesun, and moheeta irrigation in the No. II. Statements. For the rest, the principles detailed in the Thannah Bhawun Report were followed."

16. The cash rents found existing for the several classes of crops paying in each were applied ordinarily to the area in each circle occupied by their respective crops. To the area occupied by crops paying in kind, estimates of the produce were applied, with the value of the landlord's rent expressed in money. Mr. Thornton's revenue rates were also used, Mr. Keene enhancing them in the pergunnahs assessed by him in the proportion in which he believed prices to have risen. Summary rates on irrigated and unirrigated land used by the Settlement Officers at the last settlement were also used. That settlement had worked well, the old rates had been carefully made, and in many instances were found extremely useful.

Use of Mr. Thornton's produce rates, and old summary rates.

- 17. With reference to the rates used by Mr. Celvin, two objections raised by Mr. Cadell, in his report on the permanent settlement of these pergunnahs, must be noted here: the first refers to an alleged disregard of peculiarities offering themselves in the characteristics of certain pergunnahs; the second, to misunderstanding of the system of classing mehecia lands, alluded to in para. 15 of this letter.
- 18. In para. 4, Mr. Cadell says that Mr. Celvin "departed from the system of his predecessors—Sir H. Elliot and Mr. Plowden,—and adopted that which had been used so much in the north of this district, and in Saharunpore, of assessing tracts, viz., assuming or working out rates on a variety of soils not known to the people, and which in ne way rule the rent-rates. Sir H. Elliot, coming up from the south, adbered to the simple and effective method in general use among the people, in fixing the rent-rates on irrigated and unirrigated land."
- 19. In reference to this it will be sufficient to quete para. 3 of Mr. Colvin's report on Kandlah, page 104, Mozuffernuggur Settlement Report:—" In Kandlah, as in Kyranah, I could find in none of the Settlement Reports any mention of the assessment of the pergunnah as a whole. Detached villages were mentioned by Mr. Plowden and Sir H. Elliot, but rates and circles were not forthcoming. I believe the Trans-Hindun villages were settled by Sir H. Elliot, and the Cis-Hindun by Mr. Plowden. I made two fresh circles—the Kandlah and Parasoolee—as marked in the map, and distributed the other villages among the Shamlee, Kyranah, Bangur and Kodanah circles. In the new circles I made new rates on the principles detailed in the Thanah Bhawun Report, and for the same circles I used also a set of summary rates used by Mr. Plowden in assessing similar and neighbouring pergunnahs, and to be found in pages 238, 239, Volume I., printed Settlement Reports. These are reduced to half assets."

Remarks on objection raised by Mr. Cadell,

And then Mr. Colvin gives the rates :-

		•					Irrigated.	Unirrigated.
							Rs. a. p.	Rs. a. p.
Cis-Kirsunnee, Trans-Kirsunnee,	***	***	***	•••	•••	•••	2 8 4 3 9 9	1 4 2 1 12 6

It is not clear how, in the face of this statement that My. Colvin used rates both on Mr. Thornton's and Mr. Plowden's plan, both on soils and on land classed merely as irrigated and unirrigated, Mr. Cadell could write,—"Mr. Colvin departed from the system of his predecessors—Sir H. Elliot and Mr. Plowden, &c., &c." Inspection, as a fact, shows that the jumma according to these irrigated and unirrigated rates is invariably given in each No. 2 Statement, and is very frequently the jumma actually adopted, and that the result of these rates and Mr. Thornton's soil rates very nearly corresponded.

- 20. As to the second point in paras 4, 5, and 6, it is stated that Mr. Colvin misunderstood and misapplied Mr. Thornton's system of what he called mohesta. Mr. Cadell explains what that system was:—
- "Briefly, Mr. Thornton took the average of the outturn of lands actually irrigated in the year of measurement, and lands irrigated in other years, and applied them to the sum of both kinds of lands. The rents of the lands not irrigated that year were estimated on 'the produce of the latter as if the land were unirrigated.' Subject to precautions unnecessary to detail here, Mr. Colvin put wet rates on the lands actually irrigated in the year of measurement, and dry rates on the lands irrigable, but not irrigated that year."
- 21. The assumption that lies at the bottom of both processes is identical, vis., that in calculating the annual value of rents taken in kind, the produce of that area only which is annually irrigated must be taken as the produce of irrigated land, and the rent estimated accordingly. Land, in other words, coming under irrigation by rotation, the whole irrigable area cannot be estimated to produce, within any one year, wet crops.

The two processes have very similar results. Mr. Cadell says:—" Mr. Colvin forgot, when diverging from the method of his predecessors, that although he might, as his system required, summarily raise the proportion of irrigated land to the circle average, no attempt was made to secure entries which would represent the ordinary state of the tract, nor the circumstances during a single and possibly very exceptional year." But this applies just as much to Mr. Thornton's actual system. What did he base his area of moheeta on? The extent of the moheeta, being land assumed to bear unirrigated produce, must have largely influenced the average rate alluded to by Mr. Thornton. If the actual irrigated and the unirrigated areas were correctly measured and recorded, Mr. Colvin was treading on safe ground. Of course the value of the rentrates deduced in the mode described depends on the assumption that the year in which his measurements were made, was an average year: and as a matter of fact the years 1861-63, were average years.

- Circle Rent Rates.
- 22. The pergunnahs were much sub-divided into circles for assessment, the features of the country being very changeable, with its area largely affected by streams, and comparatively undulating; while tracts of cosur land, and large plots of dhak jungle, irregularly break up the character and extent of cultivation. The rent-rates adopted for each circle are given in an appendix to this review.
- 23. It will have been seen that the assessing officers differed in opinion as to the prices which should be applied to kind rents, and to the necessity of adding to Mr. Thornton's assumed rents on the ground of a permanent rise in prices. In para. 30 of his letter the Commissioner writes as follows:—

"Messrs Colvin and Grant were of opinion that there has been no rise in prices since 1841. Mr. Martin differs from them, and thinks that an allowance of 25 per cent. should be made in all calculations based on the value of grain. The following table shows the prices recorded by Mr. Thornton as the average of 20 years preceding his Settlement, and in juxta position the price currents of the Shamlee for 24, and Moozuffernugger markets for 15 years immediately preceding the late revision. Mr. Thornton mentions that allowance has been made for the difference between the prices the cultivators and the grain-dealers of the bazars receive. He does not mention what allowance was made, and leaves it to be conjectured that the prices given are those received by the cultivators. The ordinary difference between the price which the cultivators received and what the purchasers from them demand on bringing the grain into the market is estimated to be 10 per cent., which has been deducted from the prices given by Mr. Martin.

Prices.

Table showing average of the prices current in Mr. Thornton's time and now .:-

				Average of 20 years given by Mr. Thornton.	Average of past 24 years in Sham- lee market.	Average of the last 15 years in Moozuffernug- gur market.	Bemarks.
Wheat,	•••	•••	•••	362	26	271	
Gram,	***	900	•••	42	28	314	
Barley,	•••	***	•••	541	38	44	
Rice,	•••	•••	•••	51 1	38	38	
Fine rice,	***	•••		42	32	74*	
Moong,		•••	•••	31	28	26	
Jowar,	100	***	100	441	32	30 1	
Bajra,	100	•••	•••	48	811	33	
Mote,	•••	•••	•••	401	31	Not given.	

"This table shows that Mr. Martin is decidedly right in believing that there had been a great rise in prices, and that Messrs. Colvin and Grant were in error in this one matter. Mr. Thornton expressly mentions that the weight adopted by him was the seer which weighed 90 rupees, the standard of which was from 171·198 to 173 grains troy. The weight in the latest price current is 88 Government rupees, or 92 Furruckabad oblique rupees to the seer."

24. The harvest prices for Shamlee and Kyranah are given at page 134. the Commissioner apparently, when he writes of Mr. Martin, alludes to Mr. Keene. The former gives a table of prices for 15 years from 1849 to 1864, but makes no particular comment on it. The latter, in para. 14 of his report (page 90), says it has been found that the average price of wheat has lately been ruling much higher than it did in 1840. The tables furnished by Mr. Colvin embrace the period between 1841 and 1859.

The comparison made by the Commissioner of the period of 1850 to 1864 with the 20 years preceding Settlement is not to the point. He speaks, indeed, of the last of the above averages as being an average, of "the 15 years immediately preceding the late revision," (page 5, para. 30). But that table is taken from the statement given at page 18, which ranges from 1849-50 to 1863-64. The "late revision" commenced in 1860. A rise of prices during the twenty years from 1840 to 1860 is what the Assistant Settlement Officers could not ascertain. A comparison of the last 15 years before 1864, including the famine prices of 1860-61, with the 20 years before 1840, from which Mr. Thornton had been careful to exclude 1838-39, must of course show a rise in prices: 1860 commenced the decade of higher prices which now prevail; and as Messrs. Colvin's and Grant's return ceased with 1859, and their assessments began in 1861-62, though the Commissioner is right in his facts, he is wrong in supposing that they are furnished by the figures which were before the Assistant Settlement Officers, or that they could have possibly come under their cognizance at the time of Settlement.

Mr. Cadell, while giving figures to show that when he wrote in 1870 prices had risen, falls into the same error of taking a period wider than and subsequent to the

^{*} In this entry the very finest rice is evidently meant, not the kind quoted in the other columns.

period included in the calculation framed in 1860. The figures furnished by Mr. Cadell completely bear out the deductions of his predecessors. Taking the periods 1841-45, 1846-50, 1851-55, 1856-60, we have the following average for the price of wheat:—

```
1841-45, ... 33 | 1851-55, ... 38
1846-50, ... 34 | 1856-60, ... 36
```

Of course there can be no question of prices having subsequently risen: and so far as the value of the landlord's rental on crops paid in kind was estimated on an average lower than that now existing, it was under-estimated. But prices during the term of Settlement had fallen, not risen.

Comparative Area of the five Pergunnahs of the flourishing tract.

25. The Board now turn to the assessment of each pergunnah seriatim. The comparative apportionment of the area in the flourishing pergunnahs was as follows:—

			_	Reve-		- 1	Cu	LTIVATE:	D.	Total
Pergunnah,	Period of Set- tlement.	Total Area.	Bar- ren.	nue- free.	Cultur- able.	Fal. low.	Irrigated	Unirri- gated.	Total cultiva- tion.	Total assess- able.
Shikarpore,	Former Settle- ment, Present Settle-	68,799	10,867	1,980	6,999	•••	43,	958	43,953	50,952
(ment, Former Settle-	64,015	8,487	1,118	4,707	1,216	21,208	27,279	48,487	54,419
Boorhans, {	ment, Present Settle- ment,	50,492 51,074	9,495 8.423	1,0 04 848	6,827 ` 5.067	 1,454	16,518	16,764	35,666 35,282	39,998 41.803
Shamlee, {	Former Settle- ment,	65,018	9,798	_	8,446		10,086	35,666	45,752	54,19 0
, {	Present Settle- ment, Former Settle-	64,767	11,191	922	5,797	1,402	81,228	14,232	45,455	52,654
Kyranah, }	ment, Present Settle-	55,210	5,788	-	16,135	•••	818	28,298	29,116	45,251
Kandlah, {	Former Settle- ment, Present Settle-	67,403	6,301 8,179	1,096 7,483	-7	1,724	24,935 15,060	8,707 3 1,539	33,642 46,599	50,148 51,742
. (ment,		9,669	2,127	5,391	636	38,806	11,523	50,829	56,356
Total {	Former Settle- ment,	801,922	44,072	15,714	43,950		(a) 199,086		199,086	242,136
	Present Settle- ment,	805,558	44,071	6,111	35,744	6,489	184,690	78,505	213,195	255,371

Of the assessable area, 83 per cent. is cultivated; of the cultivated area, 63 per cent. is irrigated; fallow, in the years of measurement, amounting to 6,432 acres only, or 2 per cent. of the assessable area. Cultivation has increased, judging by the figures, but this is partly due to rent-free land falling in. The increase of irrigation as a whole cannot be stated; but in Kyranah the increase is immense; in Shamlee it is more than trebled; in Kandlah, more than doubled: in Shikarpore and Boorhana, where irrigation is chiefly from wells, the increase will probably not have been very great.

Pergunnah Shikarpore.

26. Of Shikarpore, Mr. Keene, the Settlement Officer, writes,—"Few peculiarities call for detailed notice. It will be remembered that all the tract between the Kalee and Hindun Rivers is at present dependent on the seasons for its supply of water. About three-fourths of this pergunnah are included in this tract; and on this, if on no other account, an increase of revenue is hardly to be looked for. But inequalities, whether previously overlooked, or only of recent occurrence, would necessarily demand adjustment. Variations from average of fertility would be mostly what they were at Settlement, and due allowance would have been usually then made. But I think that undue regard may sometimes have been had to other and more casual variations, and this I have attempted in some degree to modify. As to soil, it is to be observed that some part of the Cis-Hindun tract is crossed by a bhoor, or belt of sand-hill, which adds to the already noticed absence of

canal water, the further disadvantage of poverty of soil (and impossibility of sinking earthen wells) as far as it extends. In other parts, however, the soil is of excellent quality, except that near the rivers it again becomes poor, and is so uneven as almost to deserve the title of 'hilly;' but it is mostly tilled (as is also a good deal of the bhoor), and produces wheat, barley, and bajra. The khadir land also contains the fossil alkali know as reh, the presence of which the people whose estates border the Kalee Nuddee attempt to attribute to the tailing into that stream of escapes and rajbuhas from the Ganges Canal on the opposite side. This explanation, however, I strongly doubt, for I found the substance at a depth of six feet below the surface, the upper stratum being quite free; and I know of no reason for disbelieving that the Kalee is itself a medium for its deposition. If it were the canal that for the first time brought down the reh, it would, I think, only be found in recent and superficial layers, the main canal having only been opened in 1854. The khadir fields are also secure against drought: indeed, some of them are swamped, like those in the Solance khadir, during the present season. But they produced crops of sugar and rice, which, though of inferior quality, and paying a lower rental than bangur crops, are not precarious. The upper country, in the hands of Jats and Tuggas, yields excellent crops of sugar, wheat, cotton, and jour. The assessments, too, have on the whole pressed less heavily than in some parts of Boorhana; and the rates on which the old jumma of the pergunnah falls on the cultivated and culturable area, may still be taken as a fair standard, being respectively Rs. 2-4-3 and Rs. 2-0-2. Undoubtedly, there is a difference between the circumstances of the Cis-Hindun, or Shoron proper, and the Trans-Hindun, or Shikarpore tract, and this calls for some discrimination in distributing a pergunnah jumma. The tract beyond the river is not free from ravines, but it has them only on one side, instead of on two sides; and not only has it no bhoor belt, but it has a considerable share of canal-irrigation. It has the further advantage of having been all assessed by one, and that a very able officer (the late Sir H. Elliot), while the malgoozaree communities are almost exclusively industrious and thriving Jats. Whether any further development of irrigation is to be expected I am not aware; but as I know that a survey is on foot, with a view to the feasibility of a cut from the Hindun, on this ground, as also for the sake of uniformity, I have taken twenty years as the minimum period of all the engagements. I do not, however, feel justified in reckoning on any very certain extension of the capabilities of estates in this neighbourhood. Their resources are great, but they have been fully taxed, and the absence of confidence in their increase appears to preclude any general increase in their taxation."

In pages 30-32 of Mr. Cadell's Report the circumstances of the pergunnah, and of the two tracts which compose it, are further described. The pergunnah, it may be gathered from Mr. Cadell's remarks, is fairly assessed. High as Mr. Keene's rates were, they still in some instances fall short of half assets. The villages in this part of the district, cultivated by Jats, are of great fertility, and are most carefully and admirably cultivated. Mr. Keene more than once states that he showed consideration to these hard-working communities. "Not only in this, but in most pergunnahs that I have had to deal with, I have found officials recommending high assessments on particular estates, simply and solely because they were held by wealthy individuals or by industrious tribes; while the malgoosare, for their part, lay great stress on their want of capital and other personal disadvantages. Each class seems disposed to regard the land revenue as a kind of income-tax rather than what it really is, the landlord's rent. Doubtless the hereditary claims of the malgoezars form a source of sentimental influence which is hard to resist, but it cannot be indulged beyond the limits imposed by the alternative necessity of allowing a malikana. Otherwise we must, by parity of reasoning, be driven to place an exorbitant demand on estates when they happen to be held by persons of more than usual energy and enterprise, which is equivalent to the manifest absurdity of treating penally the exhibition of merit and resource. Hence, in the Shoron sub-division of this pergunnah, I have * Vide Circular I., Section 4, paragraphs 91 to 97. sacrified many small increments which were recommended to me, having regard to the 'casual variations' of Mr. Bird.* On the same principle,

palpable idleness on the part of the proprietary body has not been able to constitute a claim to indulgent rating."

Cultivation had increased by 4,534 acres, which at the old rate of Rs. 3-11-4, would give Rs. 14,408. The total approximate increase of rental is Rs. 43,305, or a net increase of Rs. 29,307, or 17 per cent. The former figures of irrigation are not forthcoming; but from Mr. Cadell's remarks in page 32 it may be gathered that the canals have not much extended irrigation in this pergunnah.

The result of Mr. Keene's calculations were as follows:---

Pergunnah.	A (Assumed rental.				ed rent-rat assessable	te per acro	Assumed rent-rate per scre of cultivation.				
	Former.	Present.	Incresse.	Decrease.	Former.	Present,	Increase.	Decrease.	Former.	Present,	Increase.	Decrease.
	Rs.	Rs.	Rs.		Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a p.	Rs. a. p.	
Shikarpore,	1,63,157	2,06,602	43,445		3 3 3	3 12 9	0 9 6		3 11 4	4 4 2	0 8 10	

Pergunnah Boorhanah.

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Boorhana, "a small division situated at the confluence of the Kalee and Hindun Rivers, at the extreme south of the district, formed part of the Principality of Sirdhana, and was settled by Mr. Trevor

Plowden, when it lapsed to the British Government in 1839 by the Begum's death. It enjoys a soil in which kutcha wells can be sunk at small expense, and last many years, the water being about 12 yards from the surface in the upper or bangur land, and not more than 8 yards in the khadir or meadow land, which is also occasionally watered from the streams which it borders. Sugar, cotton, maize, and wheat are produced. The absence of bajra (Panicum spicatum) indicates a good soil, and the marts of Sirdhana and Shamlee are accessible by good roads. The great drawback consists in the tendency of the drainage to cut ravines in its passage to two rivers, which gradually eat into the heart of the best lands. It is also to be observed that the rates on which Mr. Plowden based his assessment are rather high, ranging as they do from Rs. 2-6-5 to Rs. 6-6-5, especially as he took the full three-fourths for the Government demand. Hence almost of necessity it happened that many of the cultivators, and some even of the sharers in estates which were not adequately provided with wells were unable to hold their own during the late protracted drought, which, as noted by Mr. Edwards, has prevailed ever since the disturbances of 1857 in that part of the district. 'So much so,' adds that officer, 'that the people have taken the idea into their heads that the locality is accursed on account of their misconduct.' Many of the refugees are still absent; while those who have returned are deficient in stock in spite of the liberal aid administered by the Central Relief Committee, which was not adequate to the full extent of the evil. Above Rs. 15,000 were accordingly suspended, out of a total demand on the Pergunnah of Rs. 75,148.

In Boorhana, the old settlement was apparently based on three-fourths of the assets, and the rental was Rs. 90,024: now it is assumed at Rs. 1,39,692, an increase of Rs. 49,668, or of 55 per cent. Cultivation has increased by 1,614 acres only, or 4.8 per cent. At the former rate of Rs. 3-6-10 we have an increase of Rs. 5,550 only, giving a net increase of rental of Rs. 44,118; justified probably by the rise in prices which has subsequently taken place, but which might otherwise have proved excessive. Mr. Cadell states that in some instances the reductions allowed from the old assessments have been "enormous." But in point of fact the old assessment pressed upon the better villages; and though in some cases assets may be retained above the half share due to the proprietors, it must be remembered that both this and the Shikarpore Pergunnah are dependent for irrigation in a chief measure on wells and on the industry and cattle

of the village communities which mostly own and occupy them, and are not consequently secured from drought.

The rental results are as follows:-

Pergunnah,	Assumed rental.				Assume of	ed rent-ra assessable	te per acr land.	е	Assumed rent-rate per acr of cultivation.			
	Former.	Present.	Incresse.	Decrease.	Former.	Present.	Increase.	Decrease.	Former.	Present.	Increase.	Decrease.
Boorhans,	Rs. 90,024	Rs. 1,39,692	Rs. 49,668				l		Rs. a. p 2 10 9	_	Rs. a. p.	

Pergunnah Shamlee.

Shamlee is "very unequal in fertility. The villages grouped about the canal are naturally fertile, though the soil is adapted in each set for different crops. In the west corner a small plot of villages takes after the high character of the neighbouring Kyranah bangur circle. The villages to the east of Kirsunnee again are widely different. Those which I have grouped in the Buntee Khera Circle have a poor soil and scanty irrigation; while the villages on the extreme east, the Kodanah Circle, are among the most naturally fertile in the district. There is some low land near Salawur and Kuroree injured by the interception of drainage caused by the canal; but Major Brownlow has run a drain, as marked in the map, from Salawur to Sikkuh, and hopes to carry off the water into a natural nullah running into the Kirsunnee. The inhabitants are chiefly Jats, and the villages bhyachara. Shamlee is the only large town. The chief roads are from Shamlee to Moozuffernuggur, crossing the Hindun at Tutavee, where a bridge is now building. This road is much used, sugar and rice coming up, and grain going down it. From Thannah Bhawun another road runs to Shamlee; and from Shamlee, three more branch out to Jhinjana, 'Kyranah, and Kandlah. Perhaps there is more traffic on the Shamlee-Kyranah road than on all the others. The sugar of Shamlee leaves by this road for Paniput and other districts of the Punjab, and salt comes up this road to Shamlee. The Eastern Jumna Canal runs to the west of Shamlee."

In Shamlee we have stationary cultivation, a large extension of irrigation (21,137 acres against 10,086 at last settlement); an old rental of Rs. 1,85,102; a rental at present settlement of Rs. 2,40,114 giving an increase of Rs. 55,012, or 30 per cent., due to the larger irrigated area. Of this pergunnah Mr. Cadell notes, page 38:—"As far as I have been able to ascertain, the present assessment is, as a rule, just both to Government and the people." The old average rent-rate was Rs. 4-0-9, the new, Rs. 5-4-6. Rents are largely paid in kind, and it is probable that the assessment now falls lightly, the Settlement Officer having assessed on lower prices than those which have recently prevailed. But the Pergunnah has suffered severely from malarious fever, and Mr. Cadell, (p. 47) speaks of the land as "slowly but steadily deteriorating."

The rental results are as follows:-

	A	ssumed r	ental.		Assume of	Assumed rent-rate per acre of assessable land.				Assumed rent-rate per acre of cultivation.			
Pergunnah.	Former.	Present.	Increase.	Decrease.	Former,	Present.	Increase.	Decrease.	Former.	Present	Increase.	Decrease.	
Shamlee,	Rs. 1,85,:02	Rs. 2,40,114	Rs. 55,012	-	Rs. a. p. 3 6 8	Rs. a. p. 4 9 0	Rs. a. p. 1 2 4			Rs. a. p. 5 4 6		-	

29. Of Kyranah, the Settlement Officer says:—"The pergunnah has three distinct classes of villages, and these I grouped together for purposes of assessment. The best are those lying in the khadir, the spring crops of which are very fine. The next are the villages with a poorer soil,

Rental past and present.

but abundant irrigation and ample population, brought together in the Kyranah Bangur Circle. The last and worst is the clump of villages lying across the Katha. They resemble in every respect the Bidowlee villages, being as indifferent in soil and cultivation, and as unfortunate in their Goojur proprietorship. The only large town is Kyranah, the largest town in the district. It carries on a large trade in the export of tobacco, and has a population of Sheikhs and Goojurs, who are well-to-do. One road comes in from Shamlee, another from Jhinjana, and a third from Kandlah, and a road leaves Kyranah for the Punjab Ghat. Along this road, and from Kyranah to Shamlee the chief traffic goes, and it should, if possible, be metalled, being naturally sandy and heavy. The villages of the pergunnah are owned almost entirely by Goojurs, and are, as usual, chiefly bhyachara. The former assessment was very light. Had it not been

Remarks on former as-

for fear of too rapid an increase in the demand, I should have increased the jumma considerably more than I have done; for in every pergunnah where an increase, though fair even with

due regard to outlay, was excessively large, I have gone somewhat below it, believing that a sudden shock to the landlords, and change in their means of subsistence, would inevitably lead to distress, and degrade them from the position of comfort and independence in which I found them. Even the Trans-Katha villages, ill-cultivated as they appear, had been reasonably and fairly assessed, and were, as a rule, well off, and afforded in that respect a strong contrast to the Bidowlee Pergunnah. I may add that the rates of the old Settlement on their malgoozaree and cultivated areas answered to my new Bidowlee rates, an emen, I trust,—of the future prosperity of that pergunnah."

Pergunnah Kyranah.

30. In Kyranah, populated mostly by Goojurs, where reformation under the influence of canal-water is remarkable, cultivation has increased by 4,526 acres, or 15.5 per cent. The rental amounts to Rs. 1,04,614, or Rs. 28,351 (equivalent to 37.1 per cent.) in excess of the old. The increase in irrigation is very large, 24,117 acres. The old rate on the extended cultivation gives 11,833, leaving a net increase of 16,518, due mainly to irrigation.

The rental results are as follows:-

	A	Assumed rental.			Assum	ed rent-ra assessable	te per acre land.	Assumed rent-rate per acreof cultivation.				
Pergunnah.	Former.	Present.	Increase.	Decrease	Former.	Present.	Increase.	Decrease.	Former.	Present.	Incresse.	Decrease.
	Rs.	Rs.	Rs.		Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	-
Kyranah,	76,263	1,04,614	28,351		1 11 0	2 1 5	0 6 5	٠	2 9 10	3 1 9	0 7 11	

In this, as in the Pergunnah of Kandlah, the assumed rental of assessment is less than the bond fide assets. In Kandlah the Settlement Officer notices that he had lightly assessed the extensive queba lands; and in Kyranah he writes:--" The villages of the pergunnah are owned almost entirely by Goojurs, and are, as usual, chiefly bhyachara. The former assessment was very light. Had it not been for fear of too rapid an increase in the demand, I should have increased the jumma considerably more than I have done." Mr. Cadell adds :- "This is just the tract in which of all others the effect of a sudden enhancement of the Government demand was most to be feared. The Goojur communities, under the encouraging influence of canal-irrigation, were beginning to extend and improve their cultivation, and if not entirely to abandon their ancient lawlessness, to become at least more dependent for their support upon agriculture. Notwithstanding, therefore, the large increase to the assets of this tract, Mr. Colvin was very cautious in raising the Government demand; and the result is an assessment which, suitable in most cases for a limited term of years, is not fitted for permanence." And again, "notwithstanding the great care which has been taken not to press hardly on the Goojur zemindars, there has been a very considerable advance since last Settlement."

Pergunnah Kandlah

Kandlah "is not inferior to any pergunnah in this part of the district, except, perhaps, Shamlee. The villages to the east of the Page 104. Hindun lie rather high, but the soil is naturally fertile. To the west, the villages between the Hindun and the canal are, next to the Kodanah Circle of Pergunnah Shamlee, the most fertile I have seen; while to the extreme west the land, though inferior to the rest of the pergunnah, is on a level with the average of the neighbourhood. The cane in the best group of villages pays as high as Rs. 18 per acre, and the cotton Rs. 7-8. The only higher rent-rates I know in this part are in the Kodanah Circle, where the sugar pays Rs. 19 per acre, and the cotton Rs. 10-5. that circle is the best on this side the Kalee Nuddee. A roads runs from Boorhanah to Kandlah and on to Kyranah, and another from Shamlee to Kyranah, and on by Ailum to Baghput. This is the chief road in the pergunnah; grain, salt, and cane, passing up it from and to the Saharunpore District. Kandlah itself is not a trading town, but inhabited chiefly by a well-bred family of Sheikhs, and another of Moguls, both formerly maafeedars. There are, too, a good many Goojurs. Wheat is the chief crop grown. but tobacco has been lately taken up, and is found very profitable. The chief caste in the Trans-Hindun villages are Goojurs, wonderfully transformed by the canal, and in some degree respectable themselves, though not the cause of respectability in others. They find agriculture more profitable than thieving, but they harbour Kahars and others, who live by roguery, and are always ready to pass on a stolen buffalo, or foil the enquiries of a Police officer. Among them are sprinkled a few Jats. The Cis-Hindun villages are occupied by Jats and Rajpoots. The chief form of village, as usual, is bhyachara."

The rental results in Kandlah are as follows:-

Assumed rental.				ed rent-ra assessable		Assumed rent-rate per acre of cultivation.						
Pergunnah.	Former.	Present.	Increase.	Decrease.	Former.	Present	Increase.	Decrease.	Former.	Present.	Increase.	Decrease.
	Ba.	Rs.	Rs.		_	Rs. a. p.			_	-		
Kandlah,	1,55,014	2,22,820	67,806		2 12 11	8 15 8	0 15 4	•••	8 5 3	4 6 10	1 1 7	

In Kandlah, we have a former rental of Rs. 1,55,014; and a present of Rs. 2,22,820: an increase of Rs. 67,806, or 43.7 per cent. Irrigation has increased from 15,060 to 38,806 acres, or by 23,746 acres. Cultivation has increased from 46,599 to 50,329, or by 3,730 acres, or 8 per cent. only: so that the increased rental is almost Mr. Cadell, writing of this pergunnah, alleges wholly due to irrigation. that the rule laid down in its assessment, and already alluded to regarding moheeta land, resulted in an under-estimate of irrigation. But it has been explained that were rents are mostly in kind, it is obvious that, in estimating annual outturn, the produce only of lands irrigated within one year can be taken. It cannot be assumed in basing rates on rents in kind, that an acre irrigable, but not irrigated annually, bears annually the yield of an irrigated acre. The year in which Kandlah was measured (1862-63) was in no way whatever an exceptional year; on the contrary, a good average year. Mr. Cadell instances Ailum and Nalah as cases in point: "Inthe former township there are only 9 per cent. of the irrigable area entered moheeta, in the latter no less than 36, a difference in proportion for which there is no reason, and which has caused a very considerable inequality in assessment." The difference arises from Ailum being almost wholly irrigated by canal; Nalah, which lies high, is only so irrigated in bad years, when wells fail, and the canal must be had recourse to. The proportion of moheeta will be smallest where canal-irrigation preponderates most largely over well-irrigation, and where canal-irrigation prevails, the proportion of moheeta will depend on the ratio that lift bears to flush irrigation. If in

1866-67 there was more irrigation from the canal in Nalah, there was probably less from wells. In any case, the exceptional irrigation of a peculiar year cannot be taken as normal, or as indicating the ordinary conditions under which the outturn of rents, payable in kind must be estimated.

Results of assessment in the five flourishing Pergunnahs.

33. The results of assessment in these five pergunnahs give a net increase of Rs. 5,206:—

			æď,	nand at			Perce	etage.	on cal-	on cal-
Perg	gunnah.		Old demand.	New demand 50 per cent	Іпстевве.	Decrease.	Increase	Decrease	Uld rate tivation	New rate tivation.
<u> </u>			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs. a. p.	Rs. s. p.
Shikarpore,	•••	•••	1,06,052	1,03,301	***	2,751	•••	2	267	2 2 1
Boorhanah,	•••	•••	75,017	69,846	***	5,171	•••	•9		1 15 8
Shamlee,	***	***	1,20,316	1,20,057	•••	259	•••	-2		2 10 8
Kyranah,	•••	***	49,571	52,307	2,736		5	•••	1 11 2	1 8 10
Kandlah,	•••	•••	1,00,759	1,11,410	10,651		10	-000	2 4 8	2 8 5
-	Total,	•••	4,51,715	4,56,921	18,387	8,181	1	101	2 4 3	2 2 8

Remaining Pergunnahs.

34. There remain the five pergunnahs which at time of settlement were found in a more depressed condition: of these, two—Bugrah and Churtawul—are in the Moozuffernuggur Tehseel, and three—Thannah Bhawun, Jhinjanah, and Bedowlee—in the Tehseel of Shamlee. The comparative area of this tract is:—

				*			CULTIVA	TED.		sable.
Pergunnah.	Period of Set- tlement.	Total area.	Barren.	Bevenue Free	Culturable.	Fallow.	Irrigated	Unirrigated	Total.	Total assesse
Bugrah,	Former Settle- ment, Present, ,,	55,460 56,605	7,978 6,363		6,858 4,875	2,239	39,4 18,896		39,434 42,038	46,292 49,152
Churtswul,	Former, ,,	58,09 2 59.044	9,540 6,659		7,199 5,213	2,284	39,5 15,173		39,586 44,349	46,778 51,846
Thannah Bhawun,	Former, ,, Present, ,,	56,997	4,764 9,942		11,618	6,619	80,5 19,698	61	30,361 27,692	41,979 39,438
Jhinjanah,	Former, ,,	59,782 60,117	5,186 9,040	7,592	17,429		29,6 19,308	75	29,575	47,004 48,997
Bedowlee, }	Former, ,, Present, ,,	54,005 55,616	7,662 11,101	3,925 3,425	17,611		24,8 14.068		24,807	42,418 41,090
Total, {	Former, "	284,336 288,972	35,130 42,405		60,708 44,268		168,7 87,143		163,768	224,471 225,528

Pergunnah Bugrah.

In Bugrah cultivation has extended from 39,434 to 42,038, being an increase of 2,604 acres, or 6.6 per cent. only. Of the former irrigated area we have no returns, but there is no reason to suppose that there has been much extension of irrigation. The assumed rental of the new settlement was Rs. 1,63,382 against Rs. 1,32,865 of the old; or Rs. 30,517, being equal to 23 per cent. increase. 44.9 per cent. of the cultivated area is irrigated. Mr. Martin, who assessed it, writes that he believed "the true interests of Government will be best secured by slightly relaxing the full amount of jumma derivable from the deduced revenue rates. This pergunnah has never been very prosperous, and until irrigation is more extended, I cannot see how it is to improve. In parts of this perguman the famine has so exhausted the zemindars as to make them in many instances absolutely helpless." He adds :- "Mr. Edwards, Collector, has made the following remarks on Bugrah: -- 'This is a very fairly prosperous pergunnah. I consider the best villages in it are Tutavee, Mundee, Mookundpore, Dundaolee, and Khatowla. This last has a very slight jumma, and large profits are realized. The village of Peenah was formerly one of the best in the pergunnah, but it has latterly materially deteriorated; so much so, that a portion of its lands have been in the market, and fetched but little, whereas some years back nothing would induce the people to part with a foot of the soil. The village behaved very badly in the disturbances, and had to be punished more than once, but not so severely as to have permanently injured the

[·] Figures of former irrigated area not forthcoming.

mouzah. The people are turbulent, and many of them arrant thieves. Both Burwala and Hursolee are also fine villages with very extensive area. The former also behaved very badly in 1857. Kanownee may also be mentioned as a village of great capabilities. I cannot agree with Mr. Edwards in the above description, but rather with Mr. Lane, Deputy Collector, when, writing in 1861, he says: - 'I have seen little prosperity in the pergunnah; certainly the season has been singularly unfortunate, but at any time with few wells and no canal irrigation, it can never bear a heavy assessment. And again, 'the great difficulty I had to contend with in this pergunnah was the depressed condition of the zemindars. They are only just recovering from the effects of the famine, which destroyed men and cattle. Take, for instance, the case of Sydpoora Khoord, a petty village close to Bugrah. The malgoozars are impoverished Syuds. They broke down so completely in 1268 F. S., that Rs. 870 had to be suspended. The soil is in parts sandy, in others there is good wheat land; no resident cultivators, only a few wretched hovels in which the Syuds live. The jumma was originally Rs. 270; at the last settlement it was raised to Rs. 667, which gave a rate on the malgoozaree acre of Rs. 1-1-51. The past demand has been realized with the utmost difficulty. From the nikasees in good years we obtain an outturn of Rs. 1,057. Mr. Thornton's circle rent-rates go up as high as 1,700 odd rupees. Hurdeean Singh, Raees of Bugrah, says the estate cannot bear a higher jumma than Rs. 450; the pergunnah officers propose a demand of Rs. 325. In consideration of the extreme poverty of the proprietors, and in the hopes that a light jumma would in the course of time bring them round again, I reduced the demand to below half assets got by the circle rent-rates, viz., to Rs. 400, which gives a rate on the cultivated area nearly 9 annas cheaper than in the conterminous village of Bugrah, with its large number of resident agriculturists and traders. I could not, under the circumstances, avoid this great inequality."

Mr. Cadell writes:—"The considerable fall in the assessment was hardly necessary, but many estates were at the time of settlement much depressed, owing to the drought." How "depressed" they were from rebellion, drought, exodus of cultivators and sickness, none but the Settlement Officers of that day who saw and moved amongst them can conceive.

The old and new rental are as follows:-

Perg	unnah.	Old.	New.	Old rent-rate on cultivation.	New rent-rate on cultivation.	
		Rs.	Rs.	Rs a. p.	Rs. a. p.	
Bugrah,	•••	 132,865	1,63,882	8 5 11	3 14 2	

Of Churtawul, Mr. Colvin writes:—"Churtawul covers 92* square miles, and is bounded on the east by the Kalee Nudee, on the west 90-3 in Christian's Cenby Thannah Bhawun, on the south by Bugrah, and on the north sus, page 110. by Rampore and Deobund, of the Saharunpore District. The Hindun runs from north to south through the western quarter. Between the Hindun and the Kalee Nuddee, the land is high but naturally fertile. Description of pergunnah. Water is as a rule at a great depth. Masonry wells are scarce, and kutcha wells are only dug at a great expense, lasting for two years, or so. Except in bad rain years, cultivation is careful and abundant. The villages lie rather far apart, but are large and substantial. Tuggahs on the highland, and Rajpoots towards the Kalee Nuddee and Hindun, are the chief castes. Churthawul itself is a small agricultural town, once the residence of an amil, but now a mere overgrown village. On the west of the Hindun a rajbuha of the Eastern Jumna Canal runs from north to south, and the villages in its neighbourhood are, as usual, thriving and prosperous. One road runs from west to south-east, coming from Jellalabad and Thannah Bhawun, crossing the Hindun by an unbridged ford, and the Kalee Nuddee by a masonry bridge, and so leading to the Moozuffernuggur market. The Doab is particularly liable to malaria, and fever interferes severely with agricultural operations in September and October. The

Pergunnah Churtawul.

population is 297 to the square mile, as against 414 in Christian's Census. The difference I attribute to the drought of 1860-61, which fell very heavily on a pergunnah so deficient in irrigation. The exodus from the Cis-Hindun villages was very general.

"The balances have been reported on separately. Excepting the Kusbah, which Remarks on the previous has suffered from litigation and recent drought, Russolpore, which belongs to an impoverished Syud family, Syud Poorah, held by a colony of poor Syuds, and Bhumbela, over-assessed, there is no village which has suffered seriously during the recent settlement. The reductions now made are chiefly owing to the half-asset principle, though in a pergunnah so much dependent on the rains, I have been careful rather to fall below the mark. The Trans-Hindun villages seem to me to have been assessed at the last settlement in anticipation of the rajbuha, which was shortly afterwards run out, Several of them in consequence were straightened previous to the introduction of canal-water, and though they recovered rapidly and completely, any considerable increase, having been already anticipated, was at this settlement impossible."

Mr. Cadell's remarks.

Mr. Cadell adds:—" In this as in so many other pergunnahs in the district, the area under irrigation at last settlement cannot now be ascertained, but there can be little doubt that this tract has made considerable progress, and that the present assessment is most moderate. The great want of the pergunnah is water, and that is now at last likely to be soon supplied from the Deobund Branch, which, when completed, will entirely change the circumstances of this tract. There is at present no estate of the 36 eligible under the 80 per cent. rule, in which a moderate supply of canal water will increase the assets assumed at settlement by more than 20 per cent.; and I therefore recommend that the present assessment be sanctioned as a temporary one, and that permanent settlement be delayed until canal-irrigation shall be developed, and the settlement shall be again revised.

"Adequacy of present Settlement considered.—Although, however, there can be no accurate comparison of the irrigated areas of the present and former settlements, it is possible to compare the rates assumed by Mr. Thornton with those of the present settlement. Mr. Thornton's rent-rates for wet and dry rosli, which comprise nearly the whole of the land in this tract, were Rs. 4-7-0 and Rs. 2-7-1\frac{1}{2}, respectively. Those given by Mr. Colvin's assessment are about Rs. 3-12-0 wet and Rs. 1-14-0 dry. That these rates (equivalent to annas 10 and annas 5 per kutcha beegha) are extremely low is shown by the rates given in Appendix II.; while those found in adjoining pergumahs to the south and west confirm the conclusion to which a comparison of the settlement points, that they are needlessly low, and that the present assessment does not represent the half-asset value of the prosperous and greatly improved tract. A sudden enhancement was at the time of settlement undesirable; for the once turbulent Rajpoots had hitherto been leniently dealt with; but there seems to be no reason why the present light assessment should be made permanent."

The cultivation of the last settlement was 39,586; of the revision, 44,349, an increase of 4,763, or 12.0 per cent. The assumed rentals of the two settlements were Rs. 1,00,631 and Rs. 1,22,514 respectively: an increase of Rs. 21,883, or 21.7 per cent. At the old average rate the increase in cultivation would yield 12,095 only. Irrigation occupies 34.2 per cent. of the cultivated area, and the Canal has caused an increase of irrigation of about 5,000 aeres, to which much of the increased rental is due. The pergunnah at settlement was, like Bugrah, in a very depressed state. Population had fallen. The recent fallow amounted to 2,284 acres, or 4 per cent. of the assessable area. Mr. Martin says of it:—"Pergunnah Churthawul, although it greatly resembles Bugrah, is, on the whole, more depressed." A "sudden enhancement," such as Mr. Cadell speaks of as "undesirable" at time of settlement, was, with a population reduced by nearly a half, eminently impracticable. Eight years later, when he saw it, things were mending; but

in this, as in his remarks on the other pergunnals, there is evidence that Mr. Cadell failed to realize the *status* at settlement. The rental of the two settlements is as follows:—

Pergunnah.	Old rental.	New rental.	Old rent-rate on cultivation.	New rent-rate on cultivation.	
Churthawul,	Rs. 1,00,681	Rs. 1,22,514	Rs. a. p.	Rs. a. p.	

37. Thannah Bhawun, it has already been said, suffered exceptionally from the events of 1857. The exodus had been very large, and wide stretches of arable land were uncultivated. The drought had also fallen heavily on the pergunnah. It is described as follows:—"Pergunnah Thannah Bhawun is bounded on the north by Gungoh and by

* Description of pergunnah. † 90-1 in Christian's report on the census, page 110. Rampore, both pergunnahs of the Saharunpore district; on the south by Pergunnahs Shamlee and Bugrah; on the east by Pergunnah Churthawul; and on the west by Pergunnah Jhinjana. It covers 88° square miles. It has altered its limits since Mr.

Thornton described it in the Saharunpore Settlement Report (para. 16), but the account there given of it is generally correct. Towards the west it is intersected by the Kirsunnee, a stream running here between high banks. Beyond the Kirsunnee lies the Eastern Jumna Canal. To the extreme west the soil is naturally good, but to the east of Kirsunnee, the land is high, and there is a paucity of wells. In these parts and towards the south of the pergunnah the land is open, rather thinly inhabited, and not thickly cultivated. About the canal, mangee groves are frequent, population abundant, cultivation universal. The chief crop grown in the pergunnah is wheat, occupying 48 per cent. of the whole cultivated area. Rice is grown by a few villages, such as Yarpoor, Kadurpore, Janeepore, and Ubeytah. The chief trees are, as usual, the keekur, sheeshum, and jamun. About the north-west, in the villages Ahmedpore, Khanpore, and one or two others, dhâk jungle is prevalent. Large tracts of cosur lie on either side of the canal at intervals on its whole course, throughout the pergunnah. The

Caste of inhabitants.
† 555 in Christian's census,
page 110. Difference probably due to mutiny, and
exodus of 1860-61,—see
paragraphs 3 and 8.

population† (405 to the square mile) is chiefly Rajpoot and Jat; but there is a good sprinkling of Pathans and Sheikhs, descendants of former maafeedars." And again,—"the pergunnah in 1860-61 was in an abnormal state. The canal villages were growing wheat in unusually large quantities. In the other

villages cultivation was nearly confined to the vicinity of wells, but there too the better crops were being grown in unusual proportion, and the wells were being worked to an unusual amount. Hence I lowered the amount of two principal crops, wheat and maize, by one-fifth, and added the difference to bajra and churree. To this ratio thus obtained, I applied, as far as money-rents went, the average money-rents for the last 10 years, and to the other crops a set of estimates founded chiefly on local enquiry. I went over several files of summary suits, but in the first place I could rarely ascertain whether the land in question was irrigated or unirrigated, and very frequently the estimates themselves were disputed by the parties, and evidently excessive. The kham tehseel papers were of more assistance, as giving me a fair acre average outturn for each kind of crop—several villages in the Kheaoree circle having been held kham. The result was not, however, satisfactory. This process, which answered very well in pergunnahs assessed the following year, was injured in 1860-61 by the unusual state of the

Peculiar difficulties owing to abnormal cultivation in the famine year.

better crops. Hence, although one-fifth had been reduced from wheat and maize, the average of the better crops was evidently in excess. The nikassees could not help me, for although they showed the ratio of crops in ordinary years, they did not show them

Pergunnah Thannah Bhawun.

classified by soils. Unwilling to adopt rates which seemed too high (the averages of crops on each soil and rates formed by me in Circle Ourungabad, besides the rates actually adopted, are given at the foot of this report), I turned Rates finally adopted. to Mr. Thornton's Moozuffernuggur rates for the neighbouring circles of Bhynswal and Shamlee; and, after applying them to several villages, and comparing their results with the other processes subsequently detailed, I felt so satisfied with them as to adopt them, only reducing them to half-assets. These rates were applied to the total of each kind of soil for each circle, i.e., the Bhynswal to the Ourungabad circle, and the Shamlee to the Kheaoree circle, giving respectively a circle demand of Rs. 22,257 and Rs. 33,938. This again, and the cultivated area of the circles were divided into each other, and gave an average rate by means of which I redistributed the circle jummas over the individual villages. The soil rates applied to each village were then compared with this jumms. An abstract of the nikassees was also made for five years of the last settlement. The rate given by the total of the area cultivated by crops paying in kind, and the value of these crops, as inserted in the nikassees was applied to the area cultivated with such crops in the khusrah; the area cultivated by crops paying money rents being multiplied by those rents, and the two results added together. This estimate was always low. The putwarees, I believe, in this district register accurately the kinds of crops grown; but the amount grown is quite untrustworthy. Similarly, the outturn of five years, according to the appraisement table in Statement I., appendix to Mr. Thornton's Moozuffernuggur Report, was substituted for the amount grown, as registered in the nikasees. and the rate thus obtained, applied as the rate obtained from the nikassees had been applied. This, in average villages, was very useful, giving a demand below which, without special reasons, I never suffered myself to fall, and often affording an index to the real capabilities of the village. In almost every village in the Kheaoree circle there was a good deal of land thrown out of cultivation by the drought of 1860-61, and by the disturbances of 1857-58. As a rule, I took into cultivation at the average cultivated rate of the circle all land in excess of the proportion borne by the circle, culturable, and recently abandoned of the last settlement. The nikassees gave me little aid, for they did not distinguish accurately between 'culturable' and 'recently abandoned.' So, too, in applying the soil rates to each village, the average amount of manured land per well in the circle was preserved for each village within it. This relieved the industrious, and took cognizance of the lazy. It will be seen from the miscellaneous remarks, that when I considered it necessary, I have departed to a large extent from the results of the rates, which were only average; but they have been the basis of my assessments." Cultivation was confined to irrigated lands, and on them principally to the better crops. Mr. Cadell, writing about 10 years after the effects of the famine had passed away, has but a little better account to give. He says:-"these figures are very remarkable, and, while they show the fertility of the cultivated area to the west of the river, they indicate other symptoms which are not so satisfactory—the enormous proportion of the so-called culturable waste, and the altogether unusual difference between the incidence of the assessment on the assessable and culti-The area entered barren, must, of course, be largely added to by the construction of every new canal and the completion of new means of communication; but the enormous proportion of old and new fallow can only be owing to the gradual falling out of cultivation of land which has been injured by over-irrigation. Indeed, the portion west of the Kirsunee appears to be deteriorating rather than improving, and it is entirely owing to the rise in prices, and the consequent rise in rents, that there was not a serious diminution in the Government demand." Decrease of population has possibly something to do with the present state of affairs. And again,-"Although I have recommended seven states for permanent settlement, as in every way eligible under the rules, there is grave reason to doubt whether it would not be better for the people that permanent settlement should be delayed. As I have already stated, these states are rather deteriorating than making progress; and so little do the people desire permanence, that the owners of only two out of the seven estates could

be persuaded by Mr. Martin to sign the agreements which bound them to pay their present assessments beyond the original limit of thirty years."

"Tract to the east of the Kirsunee.—To the east of the river lies a tract of few natural advantages; the soil is of fair quality, but the sinking of earthen wells is difficult and expensive; the cultivators, too, are for the most part Rajpoots, whose progress has not been rapid. It might have been thought that this was the tract in which of all others canal-water would have been most useful and was most certain to be given; but although the once frequent earthen wells to the west of the river have long since been closed by the canal, and although the neighbourhood to the east was well supplied with masonry wells, yet the Canal Department has carefully avoided the tract which most required its aid, and has lavished canal-water in needless profusion over a fertile country which hardly wanted help. The consequence is that, while reh and swamp are doing much injury beyond the Kirsunee, and while the rajbuha to the east irrigates large tracts fully secured by masonry wells, the dry and arid tract in the middle of the pergunnah has been left without that share of canal-irrigation which it so much requires."

38. Of the whole area cultivated, in the year of famine 71.1 per cent. were irrigated. But of the whole assessable area, 16 per cent., or 6,619 acres were fallow. The old and new rentals were as follows; but the incident of the rent-rate in column 4 is purely fictitious, owing to the large amount of fallow:—

Old rental.	New rental.	Old rent-rate on culti- vation.	New rent-rate on culti- vation.
Rs.	Rs.	Ra a p.	Rs. a. p.
86,529	1,14,169	2 13 7	4 1 11

39. Jhinjanah, the next pergunnah, was even more reduced. Mr. Colvin describes it thus:—"This pergunnah lies to the west of Thannah Bhawun and east of Bedowlee, and is bordered by Shamlee on the south, and Gungoh, of the Saharunpore District,

Description of the pergunnah.

on the north. In point of cultivation and natural fertility it varies greatly. The villages in the north-west corner are imperfectly cultivated, and thick with high dhak jungle, but the

soil is naturally fair, and up to the average of the district. In the north is a small clump of high-lying estates, with sandy light soil, and water at a great depth. Towards the south the cultivation improves, the villages grow larger, population is more abundant, and dhâk jungle grows infrequent. In the south-east cultivation is very high, and as good as any I have seen in the district; while in the opposite south-west corner there is scarcely a blade of wheat, or an inhabited village. This corner, lying under Bedowlee, suffered from similar causes. The chief crop is wheat (47 per cent. of the cultivated area); jowar occupies 18 per cent, and the other crops are grown in small but equal proportions. The only town is Jhinjanah, situated high above the plain, and overlooking to the north-west the ill-cultivated plains that stretch across the Bedowlee, and to the south-east the mango groves, close clustering villages, and wheat fields which mark the neighbourhood of the Eastern Jumna Canal. High as the town lies, it suffered severely from cholera in 1861. The largest village perhaps is Oon—one of many admirable examples of Jât industry and the vigour of a village community.

"The chief castes are Jats and Goojurs; there are also some Pathans, Rors, and

Castes, area, &c.

* As against 93.2 and
409, page 110, Christian's
report on the census. Reduction in population attributable to results of
mutiny and drought.

are Jats and Goojurs; there are also some Pathans, Rors, and Sheikhs. The pergunnah map accompanying will show the distribution of castes. The area is 94 * square miles, and the population 306 to the square mile. There are but three zemindaree villages, all lying in the small ill-favored group spoken of in the last paragraph. The bulk of the villages is bhyachara; there are markets at Jhinjanna and Gurhee Hussunpore,

chiefly for agricultural produce. The Meerut-Kurnal Road runs through the southwestern corner, and tops the Jhinjanah market, which is also one of the markets for Pergunnah Jhinjanah.

the Bedowlee Pergunnah. This road is at present the only high road in the pergunnah; but a new road, the line of which is traced in the accompanying map, is about to be made to Thannah Bhawun. The chief traffic, however (sugar), goes to Shamlee. A small stream (the Katha) runs through the pergunnah, and the Eastern Jumna Canal on the east side sends out three rajbuhas into it; of which, however, the Boontah Rajbuha is below the level of the country, and does comparatively little good in this pergunnah.

"The former assessment had on the whole worked well. The villages on the west, or Bedowlee side of the Katha, were rather over-assessed, but the others were doing well, and were populous. The rebellion, and the drought of 1860 had told severely on the over-assessed villages, and to these chiefly relief was confined. Reductions due to the half-asset principle were necessary in some other villages, but beyond that, only in the villages above mentioned. The average canal-irrigation, according to the canal records at the time of the last settlement, was 1,151 acres, as against 9 villages, and at the present settlement 3,658, as against 16 villages. The canal villages were most prosperous."

In this pergunnah, as in Thannah Bhawun, the cultivated area had not increased. The area at the last settlement was 29,575; at the present, including fallow land, 27,931.

The rentals of	the two	settlements i	in this perconnah	were as follows:	
THO TOTIONS OF	THO CHIC	DOMNOTHOR I	m min nors minam	MOTO TO TOTTO MO	,—

Pergunnah.	Old rental,	New rental.	Old rent-rate on cultivation.	New rent-rate on cultivation.
Jhinjanak,	97,009	1,18,396	Rs. s. p. 8 4 6	Rs. a. p.

The entry in column 5 is, for the reasons given under Thannah Bhawun, unreliable.

Pergunnah Bedowlee.

40. The circumstances of Bidowlee were altogether peculiar. They are detailed at considerable length in pages 120 and 128 of the volume of Reports. The settlement of the pergunnah was professedly light: and there were no data whatever to guide the Settlement Officer as to its probable assets during the next 30 years. It had been greatly over-assessed: it had suffered in the Mutiny: it had suffered more in the famine of 1860: not one-half of the assessable area was under cultivation: the population were chiefly Goojurs; but an energetic Syud landholder, recently returned to the pergunnah, was making efforts to induce Bowreas to colonise, and to introduce canal irrigation. The assessment cannot be judged by the ordinary tests. and it is probably now considerably below half-assets. But the pergunnah is improving, and a recent Collector last year laid before Government his opinion of its present state. He writes:-"It is clear, then, to my mind that there has been a genuine improvement in the assets, and a still more perceptible improvement in the future prospects of the Pergunnah. (Proceedings, North-Western Provinces, Revenue Department, No. 87, June 8, 1872). The engagements are at present for 20 years, but the Government in the correspondence above alluded to, have remarked:—"It will be a question, when the Settlement generally comes up for sanction, whether the period should not be the same for Bedolee as for the rest of the district." The Board would include this Pergunnah in their recommendation of a 30 years Settlement, (of which period only 18 years have now to run.) That Bedolee is lightly assessed is not denied, but it was purposely and wisely so assessed.

41. The fiscal result of the two settlements in these five pergunnahs, has then been:—

Fiscal results in 5 Pergunnahs.

Pergunnah.		Old demand.	New demand at 50 per cent.	Increase.	Decrease.	Old rate on cultivation.	New rate on cultivation.
		Rs.	Rs.	Rs.	Rs.	Rs. a. p.	Rs. a. p.
Bugrah,	•••	86,862	81,691	•••	4,671	230	1 15 11
Churtawul,	•••	65,410	61,257	•••	4,153	1 10 5	161
Thanah Bhawun,	•••	56,244	57,081	837		1 18 7	2 0 11
Jhinjhanah,	•••	68,056	55,698	•••	7,358	2 2 1	2 4 8
Bidowlee,	•••	37,905	29,125	•••	8,780	185	1 6 8
Total,	•••	3,08,977	2,84,852	837	24,962	1 14 2	1 12 6

42. The former and present assessments of the whole of the ten pergunnahs are as follows:—

Former demand.	New demand at 50 per cent.	Decrease,
Rs.	Rs.	Rs.
7,60,692	7,41,773	18,919

The settlement has now stood the test of a period ranging from eight to eleven years, and experience has shew it to be very fair and equitable. There may be inequalities in the assessment of particular villages, but as a whole the pressure of the settlement is equal. The Board would recommend that it be sanctioned for a period of 30 years, or from 1861 to 1891.

I have the honour to be,

SIR,

Your most obedient servant,

A. COLVIN,

Secretary to the Board of Revenue, N.-W. P.

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APPENDIX.

Statement showing the Classification of Soils at present Settlement with the several Rent-Rates assumed per acre.

				per	acre.			
					Dascriptio	n of Soil.		
			_	Mocsun.	Roslee.	Dakur.	Bhoor.	
on.	널	Pergunnah.	Circle.	rigated. n i r ri- gated.	sted.	d. r. i.	d. ri	1
Division	District			Irrigated. Unirri gated.	Irrigated.	Irrigated Unirr gated.	Irrigated.	REMARKS
-	 				p. Rs. a. p. Rs. a. p.			<u>m</u>
		. (Chuck Bidoulee,	lI .	3 2 7 7 2 3 4	1 1	1 9 31 1 8 31	
		BIDOULEB,	" Yahyapoor,	2 15 41	2 14 41 1 11 2	2 18 81 1 14 54	2 6 51 1 8 0	
	ļ		" Toda,	6 10 71	3 2 31 2 5 82	3 8 81 8 10 24	2 0 74 1 8 84	
			" Fukhunpoor,	4 3 71 2 11 (2 12 91 2 4 41	3 2 2 2 2 15 3	1 13 81 1 8 21	nnsh
	İ		, J	3 2 8	3 1 3 1 12 104	1	2 8 104 1 9 6	Pergunnah
		Јинјиа-	m. i.	5 15 71		3 1 6 2 13 5		for F
			" Toda, …	5 15 10 <u>1</u> 5 6 3 4 10 2	1 1	2 10 3\frac{1}{2} 12 3	1 8 74 1 2 9	ates
			Dhymeus 1	5 6 3 4 10 7 7 8 0			1 8 51 7 0	rent-rates
	İ		" Kyranah,	6 0 0 5 0			1 15 0 1 18 10	ľhe r
		\		7 8 0 6 3			2 0 64 1 8 0	4
		KTRANAH,		5 9 8 3 14 4	3 0 64 2 11 44	2 8 4 2 0 4	1 15 0 1 0 0	ement
		(" Punjeet, …	7 4 0 6 0 0	4 12 0 3 12 0	3 4 4 2 2 0	1 15 0 1 18 10	1
	- [" Shamlee,	7 3 0 6 3 6	6 0 0 4 2 4	3 13 111 2 14 2	2 0 64 1 8 0	int, are not included in this s have not been approved yet.
	-	SHAMLER,	"Bhynswal, …	8 4 0	4 12 0 3 8 0	7 8 0 5 4 0	2 3 0 1 11 2	ded in
	-)	" Buntikheru,	7 0 0 6 0 0	4 11 0 3 6 0	3 8 0 2 12 0	1 12 0 1 4 0	included een appro
			" Koodanah,	8 11 1 4 6 10	•		3 15 6 1 14 104	not i ot be
	1	THAWAR SHAWE,		9 7 4 3 4 3		3 14 24 2 7 84	1 1	, are we no
	-		" Khesoree, Kairanah Ban-	5 6 3 4 10 7 6 0 0 5 0 0	1 1 .	2 14 51 2 2 71	2 8 51 1 7 0 1 15 0 1 13 10	
1	.		gur.	7 3 0 6 3			2 0 61 1 8 0	ettle
13	HUGGUR.	Kandhia,		8 11 1 4 6 10		1 1 1	3 15 6 1 14 104	of Settlem Appendices,
SR U)	, Purasolee,	6 12 0 5 14 (3 14 0 2 12 0	3 8 0 2 8 0	180140	Ö te
MEER	2020		" Kandhla,	8 8 0 6 6 6	6 12 0 5 2 0	6 0 0 4 0 0	3 15 6 1 14 10]	er revisi the othe
	Š	BOORHANA,	" Koodanah,	6 8 3 3 5 1	1 4 3 1 2 9 7 2 4 3 1 4 3 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	3 4 101 2 11 0	2 15 74 1 7 24	
	l],	"Shoron, …	5 8 0 4 12 9	4 5 4 2 7 2	2 6 51 1 13 6	1 8 0 1 12 111	2 2
			,, Khataolee,	4 3 111 2 12 10	1 2 15 11 1 13 101	1 15 01 1 9 82	2 14 7½ 1 6 8½	ected ich ap
	1	SHIKAR-	"Shoron, …	5 8 0 4 12 9] · · · ·	1 1		82
1	1		" Koodanah,	1	7 7	1	1 1	recently Khatouli
	i		Dudhasa	4 8 0 2 4 0 4 4 2 3 14 11			2 12 0 1 3 6 2 · 4 9 1 9 5	
	1		,,		8 6 03 2 3 44		1 7 112 1 7 0	stric
ı	İ	CHURTHA-	gur. " Jukhwala,	4 8 51 3 15 9	1 1		2 10 4 1 11 0	the District,
	1	WAL.	"Bugrah, …		3 6 0 1 14 9	· ·	1 7 0}	ğ
			" Kheaoree,	5 6 8 4 10 7	3 8 2 2 8 1	2 14 51 2 2 71	1 8 51 1 7 0	squa
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	ļ	["Bugrah, …	5 6 84 4 1 7	4 3 7 2 6 2	2 14 51 2 2 41	3 13 58 1 12 91	24
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		Bugran,	" Koodanah, "	8 1 714 2 8			8 11 61 13 01	
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1		GORDHAN- POOR.	" Rizkullapore,	ł j]	-	1 8 111	
	•		77		1 14 24	1 10 3	" " . "	<u> </u>

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REPORT

ON THE

PERMANENT SETTLEMENT

OR

THE WESTERN PERGUNNAHS

OF THE

MOOZUFFERNUGGUR DISTRICT:

BY A. CADELL, Esq., C.S.

1.—PERGUNNAH KANDHLAH.

Classified Statement of Area of Khandlah at Settlement.

	Kind of soil.		Irrigated.	Dry.	Total.	Percentage to cultivated area.
Meesau, Roslee, Dakur, Bhoor,		•••	11,213 24,487 3,499 26	20 10, 0 99 491 987	11,233 34,986 3,990 1,013	22 68 8 2
•	Totai,	•••	39,625	11,597	51,922	·

Culturable waste, 5,414. New fallow, 707.

•				Rs.
Former Jumma,	****	****	'000	1,00,679
Present Jumma,	***	141	•••	1,13,865
	Increase,	•4•	***	13,196

THE Pergunnah of Kandhlah forms the south-west corner of the Moozuffernuggur District. It is bounded on the east by Boorhanah, on the north by Shamlee, on the south by Barout and Chuprowlee of Meerut, and on the west by Kairanah and the Jumma. Only five townships of the pergunnah, however, adjoin the river, and as there is no khadir to speak of, and the bank is comparatively steep, the average of the pergunnah is but little affected. A greater influence is exerted by the River Kirsanee. which runs through the pergunnah from north to south, and cuts off from the western portion about a third of the whole area. The land on either side of this stream is to the distance of about half a mile poor and uneven, and while the estates on the Kirsance have on the level upland land quite equal to the high average of the pergunnah, the fields on the slope are unquestionably inferior, and even when Jat industry has made them tolerably productive, the difference is sufficient to bring down considerably the average of all estates thus situated. A still more important effect of the Kirsanee upon the cultivation of the two portions of the pergunnah is that it has hitherto prevented the extension of canal irrigation to the eastern portion, and in this way, while the western portion receives a much larger share of canal irrigation than is desirable, the eastern portion, especially to the south, is comparatively dry and unwatered.

2. With the exception of the land on the slope, the soil of Kandhlah is throughout excellent. East of the Kirsanee some sandy fields are recorded, and in the valley of the river the efflorescence "reh" has injured a few hundred acres on the lower level. Towards the Jumna too, the land is inferior to other portions of the tract, but it is only slightly less fertile than the soil to the east, which is in natural productiveness equal to any in the district. Water is near the surface, and earthen wells were in former years generally dug, but the low water-rates charged by the Canal Department have greatly reduced the area of well irrigation. Indeed a arge proportion of the canal water supplied to this pergunnah has merely taken the place of well irrigation, and

in the Jat villages the indirect revenue due to the canal must be extremely small. In the Goojur estates, however, the effect of the canal has been more marked, and many of the Goojur villages in the pergunnah are now little behind their Jat neighbours.

3. This variety of caste and of circumstances connected with canal irrigation renders a further sub-division of the pergunnah possible, and the Trans-Kirsanee portion of Kandhlah might be divided generally as follows:—

1st, or Kandhlah Circle.—The Jat neighbourhood to the south and east on either side of the canal.

2nd, or Shamlee Circle.—The Goojur neighbourhood to the north and east, which has long had the advantage of flush irrigation, and is situated on either side of the canal.

3rd Circle.—The Goojur estates to the west adjoining Kairanah and the Jumna, to which canal irrigation has been more recently extended.

There are of course in these tracts other castes of cultivators, but those which I have named are by far the most numerous, and rule the character of the cultivation. In a similar way the Cis-Kirsanee portion may be roughly divided into the—

1st, or Northern Circle.—With Jat communities and more or less plentiful irrigation.

2nd, or Southern Circle.—Held mainly by Rajpoots, and with a sandy substratum, which renders the sinking of earthen wells more difficult and expensive.

4. In assessing this pergunnah Mr. Colvin departed from the system of his predecessors, Sir Henry Elliott and Mr. Plowden, and adopted that which had been used so much in the north of this district and in Saharunpore, of assessing tracts by assuming or working out rates on a variety of soils not known to the people, and which in no way rule the rent rates. Sir Henry Elliott, coming up from the south, adhered to the simple and effective method in general use among the people in fixing the rentrates on irrigated and unirrigated land. Mr. Thornton, on the other hand, coming from the north, where rents in kind were very general, and money rents almost unknown, assessed on wet and dry, meesan or manured land, roslee or loam, dakur or firm clay, and bhoor or sand. To the east of the district Sir Henry Elliott carried the ultra-simplicity of his method farther north than was perhaps advisable; in the west, Mr. Colvin, coming further south than Mr. Thornton had done, brought the more cumbrous system to a pergunnah in which it is certain that the simple one would have worked much better. But Mr. Colvin was not satisfied with Mr. Thornton's system. and introduced what he held to be improvements. He writes in his Shamlee report:-"In this pergunnah I first adopted a plan formerly pursued by Mr. Thornton, but which, through a want of experience and due appreciation of the nicer points of assessment, I had hitherto only partially carried out. Distinction was in Shamlee first made between land actually irrigated in the year of measurement, land not irrigated in that year, but capable of and in other years receiving irrigation, and bona fide unirrigated land. The second and first kinds had hitherto been classed together, and an offset made against the average assumed to fall into the second class. Now, however, they were carefully distinguished. Irrigated rates were applied only to the area irrigated in the measurement year, and the two other classes were assessed at the unirrigated rates. The object in assessment being to ascertain the outturn of one year, irrigated rates applied to land unirrigated in the year of measurement would have assumed a greater average of better crops and better kinds of crops than actually was the case. When this second class (moheetah) was larger than could be fairly accounted for and above the circle average, I summarily included a part of each kind in the irrigated area. Similarly on the same principle manured land was divided into manured the year of measurement, and manured in previous years, or for next year's crop. On the first only were manured rates laid, the rest being classed as realee."

- 3. Now to this system it may be objected that the object of assessment is not to discover the outturn of the measurement year, but the income of an average year, and the attainment of this object is not facilitated by the assessing Officer fixing his attention on one year alone. The safeguards too, which are mentioned, are admirable in theory, but it is very difficult to apply them, and the result is that the system detailed above, although worked with great care, has the defect which might have been looked for—inequality. Another peculiarity, which is worth noticing, is that the system is not Mr. Thornton's, and that, in adopting these "nicer points," Mr. Colvin fell away from the system of his predecessor.
- 6. Mr. Thornton describes his method in this respect in the 7th paragraph of his report:-" It is not that land alone which is actually irrigated in the year of measurement which ought to be put down as such. The rubbee crop of the past year is succeeded by khurreef in the present, and it is not customary to water the khurreef, so that of the land round a well which is all of it watered in the course of two years only, one-half is irrigated in either one year. Both have been treated by me as irrigated land, though in the khusrah and early papers a distinction is preserved in using the name of 'chahee' for the one and 'moheetah chah' for the other. In estimating the average rent-rate, the produce of the latter is entered as if the land were unirrigated, and is then added to the produce of the former, after which the average of the two is taken as the uniform rate of the whole, and in subsequent papers the distinction is dropped." The system thus explained is of course that followed by the people when fixing rates among themselves. Wet rates are charged upon land which is ordinarily irrigated in rotation, and Mr. Colvin forgot, when diverging from the method of his predecessor, that although he might, as his system required, summarily raise the proportion of irrigated land to the circle average, no attempt was made to secure entries which would represent the ordinary state of the tract, not the circumstances during a single and possibly very exceptional year.
- 7. I have entered at considerable length into this point, because the area entered as irrigated is of such paramount importance when it has to be decided, first of all, whether the assessment is generally adequate, and, in the second place. whether the assets are likely to be substantially increased within twenty years owing to canal irrigation. In coming to a conclusion on the latter head, I have taken the moheetah from the dry area and classed it with the irrigated, and have considered whether the increase of canal irrigation promised by the Canal Department will involve an increase to the assets of the estate to the extent of 20 per cent.; and, in considering the effect of the increased canal irrigation promised, it has been necessary to keep in mind that irrigation affects the value of a larger area than that which is watered every year, and that it may be assumed with safety that if water from the canal be supplied in sufficient quantity to irrigate 100 acres every year, and if there be no reason such as extreme poverty of soil or unevenness of ground to prevent the extension of irrigation, at least 150 acres will be ordinarily irrigated, and will command wet rates. But in availing myself of the information supplied by the Canal Department, I have allowed myself very considerable latitude, as there can be little doubt that the very modest proposals regarding the eastern portions at least of this pergunnah will before long be very largely exceeded.
- 8. But in order to show more clearly the method which I have followed, it is best that I should show in detail the circumstances of the assessment in one circle, and the recommendations with reference to Permanent Settlement which have been made regarding it.

The Kandhlah Circle is situated on either side of the Eastern Jumna Canal; it adjoins on the south the Pergunnah of Chupprowlee in Meerut, and being separated from the less fertile land on the Jumna by the adjoining circle of Kairanah, and the reh-affected land to the north being included in the Shamlee Circle, the land of this

circle is, with the exception of a few hundred acres near the Kirsanee, throughout of first class quality, and is on the whole superior to any similar tract in the district excepting perhaps the immediate neighbourhood of Shikarpore and the equally fine circle which lies round Bhainsee in Khutowlee. The assessable area in acres of this circle is as follows:—

Total	Old	New	Total area	¥	Irrigable	Total	Unisri	igated.
- assessable area.	fallow.	fallow.	cultivated.	Irrigated.	(mohee- tah).	irrigable.	Ordinary land.	Sand
20,675	1,561	148	18,966	13,376	3,456	16,832	1,971	168

9. In the whole circle "moheetah" thus amounts to about 20 per cent. of the area capable of irrigation, and the whole area to which dry rates have been applied is little less than 30 per cent. of the cultivated area of the circle, whereas not more than 10 per cent. can be really dry. There can indeed be little doubt that this distinction cannot be trusted, and it is impossible to correct it in detail; for when the khusrahs were compiled, no such distinction was contemplated, and the entry of moheetah was only made in the total, the moheetah area being taken, it would appear, from the hurriedly-prepared notes of the Ameens, so that on this very important point the information obtained was of a very unsatisfactory kind. To show this more clearly I give the entries regarding irrigation in the two adjoining estates of Ailum and Nalah, the former lying to the east and the latter to the west of the canal:—

•		Ailum.		1			Nalah.			
Wet.	Moheetah.	Total irrigable.	Dry.	Total.	Wet.	Moh ^e etah.	Total irrigable.	Dry.	Total.	
1,861	181	1,492	280	1,779	1,028	575	1,603	104	1,707	

In the former township there are only 9 per cent. of the irrigable area entered moheetah, in the latter no less than 36—a difference in proportion for which there is no reason, and which has caused a very considerable inequality in assessment. In Nalah 402 acres are entered as irrigable from wells, and as there are 24 runs from masonry wells and earthen wells are easily made, this area is, even if there were no canal, perfectly secure. The rest of the irrigable area depends upon the canal, which, when irrigation is required, waters as in 1866-67 over 1,200 acres. Had the khusrah therefore been compiled in that year, the whole area nearly would have been entered wet; while if Settlement operations had been carried on on Mr. Colvin's system in 1867-68, only 313 acres would have been entered as irrigated from the canal. The average area under canal irrigation in five years is 791 acres, which would give, according to the proportion which is generally found to be pretty accurate, 1,187 acres ordinarily irrigated from the canal.

10. The very important error regarding the extent of irrigation in Nalah has led to the assessment of that estate at a rate considerably lower than that applied to Ailum. This latter village was assessed at the following rates:—On cultivated area, Rs. 3-6-9; on assessable area, Rs. 3--9; while those of Nalah are Rs. 3-1-5 and Rs. 2-14-4½ respectively. In Nalah indeed, as practically in Ailum, the old jumma being confirmed by the result of the application of the soil rates to the erroneous areas, was simply

retained. Now this jumma of Rs. 5,272 was fixed by Mr. Glyn 30 years before, and Sir Henry Elliot was decidedly of opinion that the village was under-assessed, and suggested as a moderate assessment Rs. 5,953; so that the old jumma, which was too favourable to the estate, should not be accepted as a guide.

11. To pass from single villages to the circle. Of the total area irrigable 2,503 acres are watered from wells and are perfectly secure, as the masonry wells alone would suffice for the irrigation of double that area. Deducting the area irrigated from wells, there are left 14,329 acres dependent on the canal. Now the irrigation in this tract has for a long time been fully developed, and there can be no injustice to the Settlement papers in testing the correctness of this area by the statistics of the five years preceding the recent famine, which years have been selected because the statistics were more easily ascertainable, and because there was during that period no season of drought to increase exceptionally the irrigated area, and no reason, such as the progress of Settlement operations, to induce the people to conceal the capabilities of the tract. The canal irrigation during the five years from 1863-4 to 1867-8, both inclusive, has been as follows:—

Average of five years ... 10,814

This average would give, according to the proportion which I have assumed, over 16,000 acres ordinarily irrigated in rotation, and it is to this area that wet rates ought to be applied. There can indeed be little doubt that except a little land on the slope there is no dry land in this circle, and except along the river dry rates are almost unknown.

- 12. From what I have stated it will, I think, be apparent that, in estimating the probable increase to the assets due to canal irrigation, it is necessary to include all the moheetah under-irrigated, and to this extent to alter the areas entered in the No. II. Statements. This necessary change will make it difficult to estimate according to Mr. Colvin's system, with any approach to accuracy, the sufficiency or otherwise of the assessments, which were based on rates framed for the various soils and with reference to the irrigation of only one particular year. The calculations too, which led to the fixation of these rates, are nowhere given, and the fact that the meesan or manured land has been treated in a method similar to that which has been applied to irrigation, renders the difficulty of testing Mr. Colvin's assessments by his own method almost insuperable. I have therefore on all these grounds roughly tested the assessments by the assumed rates of Rs. 1-4-0 per kucha beegah, or Rs. 7-8-0 per acre, on irrigated land, and annas 10 per kucha beegah, or Rs. 3-12-0 per acre, on dry. These rates are, I think, fully justified by the rent-rates of the pergunnah and circle given in Appendix II.
- 13. The result of this scrutiny is that the following estates, of those in this circle eligible under the 80 per cent. rule for Permanent Settlement, comply with all the conditions which have been laid down:—

-			-												
	:	Total area in sores.													
	Ailum, Pati Kalan,	995	858	86	622	822		Rs. 2,868		L, A	s.P.	Ra.	Ąs.	P. 10	·
1.	Allum, Pati Khoord,		1,018	68	950	670	280			_	11	3	ŕ	7	
9. 3.	Described 1	1,137 750	585	48	687	407	130	1,700			4	3	á		On the Kir-
٠.	Denenran	700	260	40	001	401	190	1,100	-		•	ľ		•	SADGE.
	Bharsee	769	662	25	637	597	40	2,100	١,	9	9	1 2	4	9	APTRION-
5.	Kh	626	564	28	AAI	541		1,900		_	11	3	8	-	
	Qanab T	1,213	959	94	865	838	597	1,830		_	61	1 -		10	On the Kir-
v.	DOUBLE	1,210	203		000	990	947	1,000	ļ°.		42	•	•	10	SALIGE.
7.	Tahirpore Babisa	1,860	1,661	42	1,619	1,896	998	£.800	8	8	1	ا و ا	A	K	On the slope
**	Tamp Pose Dangers	1,000	1,001	30	1,010	1,00-	220	0,000	۳	•	•		7	•	t ow ard s
		i													the river.
8.	Kewanah	780	688	80	658	479	179	2,091	la.	0	7	a	9	10	On the Kir-
٥.	transment	160	000	•	900		***	2,001	۳	•	•	١٠	•	•	manee.
9.	Matnaoli	406	303	17	286	253	84	900	9	18	8	'n.	9	4	On the Kir-
٠.		-	000	***			-	-	r		•	ıŤ.	-	-	sance.
10.	Mimlah	539	469	17	452	452	PR -	1,500	8	a	2	a	6	10	
11.	Hormazpore	802	275	- 11	274	274	1	917		5	4	۱ä.	5	6	1
									[_	_	_	_	_		1
	Total	9,378	8,042	401	7,641	6,228	1.418	24,408	3	0	7	8	3	- 1	
	"	-,***	-,,,	20.	.,,,,,		1,000	,			-	-	-	•	F

The assessments of these estates may, I think, be safely accepted as representing pretty nearly the half-asset value of the land at the time the Settlement was made; and indeed it is only fair that I should state that as a rule the results of Mr. Colvin's system are most excellent, although the peculiarities which I have noticed have given rise to inequalities which, in my opinion, render it unadvisable to settle permanently the remaining estates in this circle, which have less than 20 per cent. of the area uncultivated. Of the estates so excluded, I would distinguish Nalah, the assets of which will or rather have been largely increased above the sum assumed owing to the extension of canal irrigation beyond the area recorded as irrigated, from the other estates which I have not included in the first list, not because irrigation can be largely extended, but because at the recent Settlement a sufficient share of the assets of the land has not been secured to the State:—

		Total area in acres.	Total aggestable area.	Culturable waste.	Cultivated av-	Irrigable.	Dry.	Astentment.		Bate on assessable	aren.		Bate on oultivated	aros,	Remarks.
1.	Aldi, Pati Sadasukh	455	409	8	406	∎U§:	***	Rs. 750			s.P.	R	a.A 13	s.P.	Buness.
2.	Aldi, Pati Nanuk Chand	453	399	92	377	0.17		680	ı	9	3	í.	10	9	Ditto.
3.	Aldi, Pati Baijnath	304	266	18	253	253	***	428		9			H	ĭ	Ditto.
4,	Rampore Kheree,				[ا ا	Ì		_	_				
_	Pati Bunseedhur.	366	840	11	329	828	1	850	8	8	0	9	9	4	Ditto.
5.	Rampore Kheree,	322	800	9	291	249	49	800	9	10	8	۵	19	0	Goshain bro- therhood.
6.	Shahpore	890	893	26	845	345	***	950		9	ŏ		13		Partly Bune-
7.	Futtehpore	491	834	60	my s	274	***	560	Į.	11	10	3	1	10	Goojurs and Buneas,
8,		6,487	5,242	498	4,749	4,440	309	10,070				9		11	1
9.	Kandhlah, 5 blawas,	257	245	10	985	235	***	700	3	18	8	2	15	8	Goojura.
10,	Kandhlah Araze Mutafariqat	553	476	67	419	403	16	1,100			0	Ļ	10	0	1
11.	Malikpore		428	83	346	345		500		3	8		70		Goojars.
									_			1-	_		
	Total	10,618	8,610	787	8,028	7,655	368	17,855	Ţ	15	6	2	3	74	1
12,	Natah	2,064	1,819	H	1,707	1,603	104	5,979	3	14	4	3	1	5	Jab brother- hood.
	Total	12,677	10,629	899	9,730	9,258	472	22,530	2	9	1	2	5	2	1

14. Of these estates Nalah alone has been excepted on account of irrigation. In this estate 697 acres were rated dry, and the irrigation of this area will add, or rather has added, 20 per cent. on the assumed assets to the value of the estate. In Nalah too the under-assessment was due, I believe, entirely to the method of assessing on the basis of the irrigation of a single year, and in no degree to any fraud on the part of the Jat owners, who, if assessed in accordance with their own rent-rolls for the years preceding the drought, would have to pay a heavier rate of assessment than that of any village in this splendid circle.

The other estates, which have been excepted, are owned almost without exception by Buneas and Sheihs, who have been treated with a leniency which they in no way extend to their tenants, and although these estates are eligible under the rules for Permanent Settlement, I feel bound to recommend that they be excluded.

- 15. All these estates are on the level upland, and including as they do the fertile Kandhlah township, give an average of capability as high as that of the much more highly assessed Jat townships. The difference of treatment is partly due to the excessive consideration which has been shown to the Sheikhs and Moguls of Kandhlah, and partly no doubt to the exertions of the proprietors in procuring favourable khusrahs. The extent of irrigation was so obvious that few attempts were made to conceal it; and the case of Shahpore, in which estate, easily irrigable throughout the entire area, only 43 per cent. has been entered irrigated and all the rest moheetah, is exceptional, and it is clear that the Bunea owners wisely and with much success devoted all their energies to keep down the area entered as meesan or manured; the result has been that this most valuable soil of all bears only a proportion of 8 per cent. to the cultivated area in Aldi and Shahpore instead of 26 per cent., the proportion in the fully assessed circle; or, to take another view of the matter, the meesan area entered in Aldi and Shahpore is not more than two-thirds of the average area under cane, cotton, and moonjee, crops which are invariably grown on manured land.
- 16. Appendix No. I. shows how high the rent-rates in this circle are, and I need not now do more than look at the assessment of the chief estate of all-Kandlah. The average money rent in this estate is Rs. 1-13-4 per kucha beegah, or Rs. 11 per acre; but what is more important is, that the average fixed grain rent-rate charged upon 784 acres, including much outlying land and little of the best which is farmed by the owners or let on the batai system, is over 41 seers of wheat, which at 33 seers to the rupee, the average rate of 25 years preceding Mr. Colvin's Settlement, would have given an all-round money rent-rate of Rs. 1-4-0 per kucha beegah, or Rs. 7-8-0 per acre. This rate, which is now looked upon as a very moderate one, would give, in place of an assessment of Rs. 11,800, one of over Rs. 19,000, and there can be little doubt that the present assessment is little more than 25 per cent. of the assets of the cultivated area, and indeed this estimate of the value of the estate is in a great measure confirmed by the rent-rolls themselves. Although then it was deemed advisble to show very great consideration to the Sheikhs and Moguls of Kandhlah, and although it was inexpedient to raise the former assessment all at once to the level of the circle, I hold that it would be as unjustifiable to confirm the present very favourable terms absolutely as it would be to reward the precautions of the Buneas by a Permanent Settlement at the present rates.
- 17. I have gone at great length into the details of the assessment of the Kandh lah circle, in order that I might show with clearness the method which I have followed. I now proceed to show more rapidly the results at which I have arrived in other circles, and would refer for details to my notes regarding each estate.
- 18. The Shamlee Circle lies immediately to the north of that of Kandhlah, and differs from it chiefly in there being more rice, and in the fact that the cultivators are

chiefly Goojurs. The estates in this circle, which, dealt with in a manner similar to that which has been fully explained regarding Kandhlah, appear to me to comply with all the conditions which have been laid down, are:—

	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment,	Rate on assessable	ä		Rate on cultivated		
							Rs.	R. 4	A. P.	Rs.	. Д.	Р.	
 Biramkhera, Pati Ramdut Biramkhera, Pati 	241	697	18	181	181		602	8	0 11	8	5	2	Goojur brother- hood.
Lada, S. Rusoolpoor	98 542	81 391	16	87 875	87 321	54	278 1,051	8 2 1	1 7		2 12	-	Ditto.
4. Silpa 5. Sherpoor (maafee), 6. Lahaoripoor	869 844 29 7	611 229 249	114 20 16	497 209 283	198 147 288	299 62 	1,244 571 679	2 2 2 1	0 7 7 10 1 8	2	8 11 14	1 8 8	On Kirsanee, Jat brotherhood. Goojur brotherhood.
Total	2,386	1,765	188	1,582	1,167	415	4,420	2	7 10	2	12	8	

The remaining eight estates of those eligible under the 80 per cent. rule, I would for the present exclude, as the assessment has, for various reasons, been fixed at a rate considerably lower than that borne by exactly similar estates in the neighbourhood:—

	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rate on assessable area.	Rate on cultivated
1. Pinjokhrah 2. Jasalah 3. Chuk Duma Kheri 4. Salah Kheree 5. Fasailpoor Khalisah 7. Khandraoli, Pati Musalmanan 8. Khandraoli, Pati Hinduan	746 1,087 297 288 564 844 1,089 1,016	609 981 271 204 539 296 907 816	34 15 15 16 9 3	575 966 283 188 530 293 758	576 947 882 153 580 293 758 781	 19 28 86 	Rs. 1,578 2,500 500 350 1,000 594 2,000 2,222	Rs. A. P. 2 9 5 2 8 9 1 13 6 1 11 5 1 13 10 1 15 8 2 8 8 3 11 7	Rs. A. P. 2 11 11 2 9 5 1 15 3 1 18 9 1 14 5 2 0 0 2 10 2 2 18 6
Total	6,326	4,628	276	4,347	4,270	77	10,744	2 5 21	2 7 61

In these estates the proportion of irrigable land to which dry rates have been applied is very considerable, rising in Pinjokhra as high as 26 per cent. of the irrigable area. It is also to be remarked that the more highly assessed estates, Pinjokhra, Jasala and Khindraolee, adjoin, and are hemmed in by estates of the Kandhlah Circle, to which they are exactly similar. Indeed the assessment of Jasala was not further raised only because it was thought unadvisable to increase the Government demand too rapidly, and there can be little doubt that when the present Settlement expires these estates will be able to bear with ease an assessment as high as any which has been fixed in this pergunnah. I would therefore exclude them for the present from Permanent Settlement.

19. There now remain of the tract west of the Kirsanee only those estates which compose the Kairanah Circle. In this circle, as a rule, canal irrigation has been more

recently introduced and is less fully developed, and the land, tilled for the most part by Goojurs, has not yet reached that high state of cultivation to which the immediate neighbourhood of the canal has long since attained. There are therefore various reasons which preclude the Permanent Settlement of this tract. Canal irrigation is still capable of very considerable extension. The general cultivation of the tract is somewhat backward, and even in those estates in which a comparatively high standard has been already reached, so much consideration was shown at Settlement, and in order to avoid the evil effects of too sudden a rise, the demand was raised so cautiously, that even now there is a large margin for enhancement. This moderation, although here and there it may be excessive, is in no way to be regretted, and the result of it will be a large increase to the capabilities of this tract, and, when the period of Settlement expires, a suitable addition to the Government demand.

20. The estates in this circle, all of which are held to be ineligible for Permanent Settlement, are given below. Of these estates there are a few like Charhao comparatively highly assessed, but Charhao adjoins Kandhlah and is little behind that circle; and as no less than 40 per cent. of the land in this circle was rated dry at Settlement, it is desirable that the Permanent Settlement of this tract, which is already fully irrigated by the canal, should be delayed.

		Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rate per acre on as- sessable area,	Bate per sore on cul
								Rs.	Rs. A. P.	Rs. A. P.
1.	Asudpore	296	219	13	206	185	21	800	1 5 11	1 7 4
2.	Islampore Ghasaoli	1,108	990	84	956	897	59	1,850	1 5 9	1 6 7
3.	Ambehtah	681	591	56	535	426	109	٥٥٥	1 5 8	1 7 11
4.	Bamnaoli	461	439	48	891	818	73	500	1 2 3	1 4 6
5.	Charhao	387	868	24	339	836	8	700	1 14 10	2 1 0
6.	Esapore, Dhan Singh,	423	328	62	266	238	28	481	1 7 6	1 18 11
7.	Kasimpore	645	559	90	469	371	98	700	1 4 0	1 7 10
8.	Khera Kirtan	964	859	35	824	752	72	1,800	1 8 3	1 9 8
9.	Gangeroo, Pati Sadat,	8,428	2,850	123	2,727	2,361	866	3,800	1 5 4	1 6 4.
10.	Gangeroo, Pati Gonju-	,,,,,	,		'			-,	-	
	ran	561	475	11	464	838	126	827	1 11 10	1 12 6
11.	Gangeroo, Pati Musal						'	- 1		•
	manan	707	525	6	519	327	192	938	1 12 7	1 12 11
	Total	9,611	8,199	502	7,696	6,549	1,147	11,696	1 6 10	1 8 8 1

21. Of the Trans-Kirsanee estates in this pergunnah, there are therefore recommended for Permanent Settlement seventeen, containing the following area and settled at the following average rates:—

Total area in acres.	Assenable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rate per acre on total area.	Rate per acre on as- sessable area.	Rate per acre on cul- tivated area.
11,764	9,807	584	9,223	7,604	1,619	Rs. 28,823	Rs. As. P. 2 7 2	Re. A. P. 2 15 0	Rs. A. P. 3 2 0

^{22.} The tract east of the Kirsanee has been divided by Mr. Colvin into two circles, the one to the north and west, which takes its name from and partakes of the

character of the fine estates which lie round Kodanah in Shamlee, the other to the south called after the large village of Parasaolee. Generally speaking, the characteristics of the two circles are very clear and distinct. In the first circle there are Jat brotherhoods, who own a soil naturally fertile and with a substratum which admits of the cheap construction of earthen wells.

The southern circle again is owned and cultivated for the most part by Rajpoots, whose cultivation is, as might be expected, less perfect, and who labour under the disadvantage of occupying a high and arid tract in which the construction of wells is difficult and expensive.

Canal irrigation has not as yet been introduced into this neighbourhood, but the opening of the Yarpore Extension Rajbuha will no doubt effect a great change for the better in the circumstances of the drier portion of this tract. In the Kodanah Circle, however, Jat energy has already made well irrigation so general that little improvement can be expected, and in most estates no canal irrigation is promised.

23. There are in this way eligible for Permanent Settlement under the rules the following estates in the Kodanah Circle:—

		Total area in acres.	Total assessable area.	Culturable area.	Cultivated area.	Irrigable.	Dry.	Assessment,	Rate per acre on assess- able area.	Rate peracre on cultivated area.	•
									Rs. A. P.	Rs. A. P.	
1. Hasanpore	•••	1,280	907	78	829	599	23 0	2,400	2 10 4	2 14 4	On the river.
2. Khizarpore	•••	467	800	44	256	129	127	659	2 2 5	2 7 11	Ditto.
3. Lisadh	•••	2,403	1,966	213	1,753	1,820	433	5,056	2 8 11	2 13 2	Ditto.
Total	•••	4,109	8,173	885	2,838	2,048	790	8,115	2 8 11	2 18 9	

All these estates are on the river, and in each there is a large proportion of uneven land on the slope; the upland again is already so carefully cultivated by the Jats that, even if canal irrigation be extended to these estates, no very great improvement can be expected. Indeed the rates now levied, averaging Rs. 7-8-0 per acre wet, Rs. 4-8-0 dry, and Rs. 3 for land on the slope, are as high as those generally levied in the best canal villages; and as nearly all the level land is now irrigable, there is no reason to expect that canal irrigation would do more than it has done in similarly circumstanced estates west of the river, close the wells, and substitute rice for the equally profitable sugar-cane.

24. The estates which I have excluded from Permanent Settlement are Badshapur, Bhogalkherah, Karaodah, and Kherah Mustan, which will, with the exception of the second, be enormously benefited by the opening of the new rajbuha which passes through Karaodah and close to the other three estates. The present condition of these estates, the incidence of the assessment, and the prospect of canal irrigation are shown below:—

	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment,	Rate per sore on as	Rate per acre on cul- tivated area,	Area to be irrigated by the canal.
							Rs.	Rs. As. 1	Ra As. P	
1. Badahahpore	247	203	1	203	111	91	579	2 18 8	2 18 10	140
2. Bhogalkherah	6	6	•••	6	6	•••	8	1 5 4	1 5 4	
3. Karaodah ···	949	877	99	778	495	288	2,105	2 6 5	2 11 4	420
4. Kherah Mustan (maafee)	835	758	74	684	672	12	1,884	2 7 11	2 12 3	280
Total	2,037	1,844	174	1,670	1,284	886	4,576	2 7 8	2 11 10	840

25. Immediately to the south of the Kodanah estates lies the Parasaoli Circle, the treatment of which has, for a variety of reasons, proved much less successful than that of the more fertile townships to the north. As a rule, the estates in this circle are under-assessed, and there is moreover a very marked inequality, which, combined with the probable extension of irrigation from the new rajbuha, must preclude Permanent Settlement in the greater number of estates.

The more northern villages of this tract are owned and cultivated by Jats, and ought perhaps to have been included in the Kodanah Circle, which they most nearly resemble. Of these estates only one, that of Dungar, can be recommended for Permanent Settlement; the others are ineligible owing to the prospect of a large increase of irrigation from the new rajbuha. Just to the south of these Jat villages lie the estates of the Karol owners, who have been treated with such excessive leniency that even now the assessment, which was enhanced by Mr. Martin, barely amounts to 30 per cent. of very moderately stated assets. To the south and west of these again lie the townships owned and occupied by the Kachwei Rajpoots, who cultivate with quite as much industry as can be looked for from people of their caste, who notoriously vary the monotonous occupation of agriculture with occasional cattle-lifting expeditions. The assessment fixed for these estates implies assumed rent-rates of Rs. 4-2-0 wet and Rs. 2-10-0 dry, which the rent-rates found elsewhere in this circle, and above all in the Rajpoot estates of exactly similar quality adjoining it on the east, show to be considerably below the average of the neighbourhood. The slight general under-assessment of this tract and the occasional inequalities in the incidence of the land revenue are the less important, as the opening of the new rajbuha will render the Permanent Settlement of this tract inexpedient.

26. The recommendations, then, which have been made regarding this tract are—that the estate of Dungar be classed with the permanently settled estates of the Kodanah Circle, and that the remaining estates of the Parasaolee Circle be excluded from Permanent Settlement.

	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rate on assessable		Rate on cultivated	area.	Area to be irrigated by canal.	
1. Dungar 2. Baral 3. Phuganah, Pati Hukam 4. Phuganah, Pati	805 2,924 1,861	549 2,590 1,216	305	516 2,285 1,081	250 1,001 809	1,284	1,226 4,2 00	1 9	9 11	2 5	0	280	A very little land on the river.
Diyanat 5. Phuganah, Pati Rajrup 6. Jogia Kherah 7. Durganpore 8. Futtehpore Kheri, 9. Kamrudin Nagar, 10. Hariya Kherah	781 784 663 899 744 1,487 986	757 718 598 647 618 1,359	79 83 41 29	680 639 565 606 589 1,182	467 544 251 346 341 237 820	95 314 260 248 945	1,341 800 1,100 700	1 13 1 5 1 10 1 2 1 2	10 5 8 2		1 7 3 7 3 1	560 0 280 860 0	On the river.
Total	10,579			8,449	4,816	4,132	14,148		01	1 10	0 9	1,980	river.

27. It will be seen from the above statement that I have recommended the exclusion from Permanent Settlement of several estates which the Canal Department does not propose to irrigate; and generally I may explain that I have not felt myself bound to abide entirely by the professedly vague and uncertain information which the Canal Department has been able to furnish.

In this instance I recommend the exclusion of these estates partly because the assessment is hardly adequate, but mainly because I hold it to be in the highest degree unlikely that the Irrigation Department will be permitted to abide by the resolutions which it has formed; for it is to be remembered that, although it is proposed to reserve for the dry tract east of the Kirsanee, which has such urgent need of more efficient means of irrigation, canal water for only 3,660 acres, or less than one-quarter of the area, and to leave the driest estates of all unhelped, it is, it would seem, in contemplation to increase the already too extensive canal irrigation in the low and fertile plain to the west of the river. Now, although this intention is quite in accordance with the past system of distribution on the Eastern Jumna Canal, it is incredible that with the evil effects of over-irrigation before it Government should permit a waste of water, the only effect of which can be the closing of the wells which are still at work, increased injury to low-lying land, and the still further deterioration of the health of the people. I have therefore taken for granted that in the Parasaolee Circle canal irrigation will be extended beyond the one mile limit which has been set, and that the aim of the Canal Department will be in some degree to extend irrigation to the tracts in which it is most required, not as heretofore to confine it to the line of country in which wells are most easily sunk, and in which the aid of the canal is less a necessity than elsewhere. In making this assumption, I trust that I have been sufficiently justified by the recent orders regarding the redistribution of canal water, which orders leave little room to doubt that the immediate revenue from water-rates is no longer to be the sole object of the Department, but that some care is to be taken to ensure the irrigation of those tracts the improvement of which, without help from the State, must be slow and uncertain.

28. In the whole Pergunnah of Kandhlah, then, there are 77 estates, of which 65 are eligible for Permanent Settlement under the 80 per cent. rule, and of these 21 are now recommended for Permanent Settlement under the present rules,—17 est ates to the west of the Kirsanee, which now enjoy the benefits of canalirrigation, and 4 to the east of that river, which are already so highly cultivated and so fully irrigated from wells that no great improvement from the introduction of canalirrigation is to be looked

for. The area of these estates and the incidence of the present assessment are shown in the subjoined table:—

Estates recommended for Permanent Settlement.

	Total area in acres.	Assessable area.	Culturable area-	Cultivated area,	Irrigable.	Dry.	Ascesment.	Rate per acre on total area.	Rate per acre on assessable area.	Bate per acre on culti- vated area.
							Rs-	Rs. As. P.	Rs. As. P.	Rs. As. P.
17 estates west of Kir- sance	11.764	9,807	548	9,223	7,895	1,828	28,828	2 7 2	2 15 0	8 2 0
4 estates east of Kirsanes.	4,914	8,792	868	8,854	2,29 8	1,056	9,841	1 14 5	2 8 2	2 12 6
Total, 31	16,678	\8,529	953	12,577	9,698	2,884	88,169	2 4 7	2 13 2	3 0 7

The area of, and the incidence of the assessment on the estates, regarding which it is recommended that the present assessments should not be made permanent, are—

Estates not recommended for Permanent Settlement.

	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment,	Rate per acre on total			Rate per acre on assess-			Rate per aere on culti-	
							Ra.	Re. A	ls. P.	R	. As	. P.	R.	, A s	. P.
31 estates west of Kir- sance	27,614	28,450	1,677	21,778	20,077	1,696	45,070	11	0 1	1	14	9	2	1	1
18 estates east of Kir- sance	12,616	11,284	1,116	10,118	5,600	4,518	18,724	ι	7 9	1	10	81	1	18	7#
Total, 44 estates	40,230	84,684	2,798	81,891	25,677	6,214	63,794	1	9 4	1	13	5	2	0	1

These statements show that there is a very considerable difference between the averages of the two classes of estates, and I trust that this difference and the detailed remarks which have been recorded in the pergunnah books regarding each estate will be held to justify the exclusion from Permanent Settlement of so large a portion of this flourishing pergunnah.

29. And with respect to the first class, while I may confidently state that the 21 estates composing it comply with all the conditions which have been laid down, that they are fairly and equally assessed, and that they have all reached a high standard of cultivation, I would at the same time strongly recommend that the plan so often suggested be followed, and that the assessment be fixed in produce instead of in money. If this were done, all the advantages of Permanent Settlement would be secured, and one at least of the greatest disadvantages would be avoided. The idea moreover would not be a new one in this tract, for fixed grain rents work as smoothly in this, one of the finest portions of the Upper Doab, as they do in some of the best agricultural counties

at home, and there does not appear to be, in this neighbourhood at least, any sufficient ground for the fear entertained by the late Lieutenant-Governor, that the fixation of an assessment in grain or other produce "might lead to doubts as to the bond fide permanence of the assessment." Every landlord would know, as every tenant paying a fixed grain rent knows right well now, that the increased produce caused by increased expenditure of labour and capital would be entirely his own, and the fact that Government would participate in the increasing value of produce could have no effect in discouraging enterprize.

30. The adoption of some such system is the more necessary, because even in the most highly assessed estate Mr. Colvin's jumma is slightly below half assets, and this is due partly, it may be, to the peculiarities of the system in accordance with which a considerable portion of the irrigable area was rated as if it had been dry, but mainly, it is believed, owing to his having formed what appears to be an erroneous view of the average price of grain at the time of Settlement.

Mr. Colvin came to the conclusion that the price of grain had fallen since Mr. Thornton's Settlement; in other words, that the rate of 362 seers for wheat, which Mr. Thornton had assumed in 1841, was too high a rate to serve as the basis of assessment in 1861. In arriving at this conclusion, Mr. Colvin was no doubt influenced by the anxiety to exclude from calculation all years of exceptional scarcity. But any calculation, the result of which is to be compared with Mr. Thornton's average, ought not to exclude any year, however exceptional; for the period which preceded Mr. Thornton's Settlement ended with four years of famine prices, the severity of which has not even yet been equalled. If Mr. Colvin's mistake be corrected, it will be found that the price of wheat had risen by not less than 3 seers, or about 8 per cent. and that a rate of 33 seers would have been a moderate one to assume at the time of Settlement. Our experience since 1862, moreover, has been such as to render it more than ever questionable whether it is expedient for Government to abandon all right to share in the increased value of agricultural produce. The price of goor has enormously increased, that of cotton would seem to have permanently attained to a rate 50 per cent. higher than that which formerly ruled, and if there be assumed for wheat a rate no higher than 30 seers to the rupee, this would give in seven years a change from the price assumed against Government and in favour of the payer of land revenue to the extent of 17 per cent.

31. Under these circumstances, I would strongly recommend that if Government should see fit to sanction the Settlement of these 21 estates in perpetuity, the present jummas should be expressed in produce, and that right be reserved to Government to re-adjust the money demand after the expiration of 20 or 30 years, and thereafter at such intervals as might be fixed.

If this were done, no change need be made in the amount of land revenue now paid; the proprietors would pay the sum fixed at Settlement until the expiry of the term for which that Settlement may be sanctioned; but the amount in grain or other produce at the average rates at the time of Settlement would be recorded, and this produce assessment would be the assessment sanctioned in perpetuity.

ALAN CADELL, Settlement Officer.

7th February, 1870.

WITH this report are submitted the following Statements:-

- 1. Statement showing the estates in Pergunnah Kandhlah eligible for Permanent Settlement inasmuch as they have 80 per cent. of the assessable area under cultivation, those with less than 80 per cent. of the assessable area under cultivation, and those of the first class which are recommended for Permanent Settlement.
 - 2. Statement of rent-rates.
- 3. Statement showing harvest prices in Jelalabad, Pergunnah Thana Bhown, of wheat, uncleaned cotton and goor, from 1818 to 1869.

APPENDIX No. I.

List of Estates in Pergunnah Kandhlah.

	· · · · · · · · · · · · · · · · · · ·	
de actatas with 90 man	91	1 41/ 0-41 97.1-
65 estates with 80 per	21 estates recommended	1. Aliam, Pati Kalan.
cent. of the assessable	for Permanent Settle-	2. Ailam, Pati Khoord.
area under cultivation	ment.	8. Banehra.
and eligible for Perma-		4. Bharsi.
nent Settlement.		5. Biramkhera, Pati Ramdat.
		6. Biramkhera, Pati Lada,
		7. Hasanpore.
		9 Whomman
		8. Khemurpore.
		9. Khawaspore.
		10. Dungur.
		11. Russoolpore. 12. Silpa.
		12. Silpa.
		18. Sonah.
	·	14 Tahirnone Phahice
		14. Tahirpore Bhabisa,15. Kewanah,
		10. Aewanan.
		16. Lahoureepore.
		17. Lesarh.
		18. Mutnaoli.
		19. Mimlah.
		20. Hoormaspore.
		W
		Maapue.
		21. Sherepore.
		-
	44 estates, the exclusion of	1. Asudpore.
	which from Permanent	2. Islampore, Ghasaowli.
	Settlement is recom-	
		3. Aldee, Pati Sadasookh, 71 biswas.
	mended.	4. Aldee, Pati Nanukchund, 71 biswas.
		5. Aldee, Pati Baijnath, 5 biswas.
		6. Ambehta.
		7. Badshahpere.
	•	8. Bamnaoli.
		9. Baral.
		o. Darai.
		10. Bhogalkhera.
		11. Pinjokhra.
		12. Phoganah, Pati Hukam.
		18. Phoganah, Pati Diyanut.
		14. Phoganah, Pati Rajrup.
		15. Jasalah.
1		10 Torishboush
		16. Jogiakherah.
		17. Charhao.
		18. Chakdumakheree.
;	_	19. Doorganpore.
		20. Rampore Kheree, Pati Bansidhur.
		21. Rampore Kheree, Pati Goshain.
		22. Shabpore.
•		23. Esapore, Dhan Singh.
		24. Futtehpore.
		25. Futtehpore Kheree.
·		26. Faselpore, Khalsah.
		27. Fazelpare Musbetah.
		28. Kasimpore.
j		29. Kamroodinnaggar.
		80. Kandhlah, 15 biswas.
		81. Kandhlah, 5 biswas.
		32. Kandhlah, Arasi Mutafarkat.
		38. Karoudah.
l	· · · · · · · · · · · · · · · · · · ·	84. Khundrouli, Pati Musulmanan.
i		85. Khundrouli, Pati Hinduan.
		36. Kherah Kurtan.
1		37. Kherah Salih.
ı		88. Gangeroo, Pati Sadat.
•	• •	39. Gangeroo, Pati Gujran.
į.		40. Gangeroo, Pati Musulmanan.
l		41. Malikpore.
1		42. Nalah.
	!	43. Hariya Kherah.
ì		Maayne.
	i	# 401 #B*
	1	44. Kherah Mustan.
		44. Kherah Mustan.
12 estates with less than	ĺ	1. Basee.
80 per cent. of the as-		2. Parasaoli.
sessable area under cul-		3. Pahaonkurpore.
tivation and ineligible		4. Dunda Kherah.
for Permanent Settle-		5. Dangrour.
ment.		6. Bajpere Chajpore.
		7. Sarnaoli.
1		8. Esapore Sheru.
		9. Gujarpore.
i	·	10. Loi.
		11. Dudahur.
		12. Kunyar.
į,		
		<u>_</u>

APPENDIX No. II.

Rent-rates in Pergunnah Kandhlah per kutcha beegah—one-sisth of an acre.

Name of village.	9	Bent-rale Ans	Ronf-raise per krieka beegak Jased at Betilement.	a beegak me.	Ront-rate	flood by gand since	Rent-rates Ased by private agreement at and since Settlement.	oment at	Bont-ra	Bont-ratos fived in Oourt.	Court.	Remarks regarding renterates fixed by
dan N		Wet.	Dry.	Bhoor.	All round.	Wet.	Dry.	Bhoor.	Wet.	Dry.	Bhoor.	private agreement and in court.
KANDELAH CIBOLE	a.T.v.	Bs. As. P.	Be. As. P.	Bs. As. P.	Bs. As. P.	Rs. As. P.	Bs. As. P.	Rs. As. P.	Bs. As. P.	Bs. As. P.	Rs. As. P.	
		:	:	:	:	64	:	:	:	i	:	For 103 agree.
Aldee, Pati Nannk Chund			:	ï	:	1 4 0	:	:	:	:	:	For 60 acres; the rest in kind.
Aldee, Pati Baijnath	:		:	:	:	:	:	:	:	:	:	
Ailam, Pati Kalan	:	:	i	:	:	1 7 4	:	:	•	:	ŧ	For 55 acres. In Court in commuta-
Ailam, Pati Khoord	•	:	·	:	:	•	2	•	•	:	:	For 247 acres.
Banehra	:		:	:	:	7 8 0	0 8 0	:	:	:	:	<u>~</u>
												slope, and of the wet some has to
Bharet	•	•	:	;	:	1 1 0	i		:	:	:	For 36 sores.
Permuone IChesi		_	:	: :		=	:	: :	1			Total of the second
Sone	:			: :	: :		91.0	: 1	: :	•	: :	To a series
Strategie	•	_	: :	:	: :	,	:	i ;	: :	:	:	To a de de de de de de de de de de de de de
Sampore Director	:	:	}	:	:	3 E	: :	: 	:	:	:	FOR 250 BOTHE.
Tanirpore Basisa	•	::	:	:	:		7	:	:	:	:	For sou scress
Futtenpore	:	0	: -	:	:	:	:	:	:	:	:	
		80 30 	:	£	:	:	:	:	:	:	:	
Kandhlah	:	:	:	£	41 seers	1 18 4	:	;	:	:	:	For 884 acres; a grain rent giving at
					`							made between land entered wet and
												that entered dry. The money rent
				_			•					has been fixed for 36 acres.
Kawana	•	:	:	:	:	9	• •	:	:	:	:	and dry is on the slope.
Khawaspore	•	:	:	:	:	:	:	:	:	:	:	
Gooiurpore	:	_	i	:	:		:	:	:	•	i	For 34 acres.
Mimish	•	:	:	:	:	•	i	:	:	:	:	For 79 acres.
Nalah	:	:	:	:	:	1 0 0	0 00 0	:	:	i	:	For 392 acres.
Harmaspore	:	:	:	:	:	9	:	:	:	:	:	For 98 acres.
SHAMLEE CIRCLE,	SCLE.		-									
Biram Kherah. Pati Ramdut		:	:	•	:	0	:	:	:	:	:	; rest khudkasht.
Biram Kherah, Pati Lada		:	:	:	:	7 + 0	:	:	i	i	:	
Pipiokhra			:	:	:	7	:	:	:	:	:	65 acres.

	 E	:		-	:	•	, ,	:	:	:	: 	-	51 mores; rest kbudkasht and kind
Chakduman Kheri	:	:		:	:	:	:	0 8 0	:	:	:	:	Old rate fixed before irrigation still
Rusoolpore	:	:		:	i	:	1 11 0	:	:	:	: 	:	29 sores; rest khudkasht and kind
Silpa Salab Kheree	::	::		::	: :	::	1 0 0	: 6	9:	::	::	::	69 acres; ditto.
Faselpore Khalsah	i	0 11	9	:	•	:	9 3	<u>.</u>	:	:	:	: 	By private agreement for 186 acres before Settlement; at Settlement for
Faselpar Musbitah	:	0 11	9	:	:	85-40 and 45 seers	:	<u>:</u>	: 	 	:	<u>:</u>	Average rate 38 seers of wheat per kutchs beegah for 169 acres at 30
Khandraoli, Pati Musalmanan Khandraoli, Pati Hindnan	:	: :		: :	:		0 15 0	: :	::	::	:	::	\$47 acres, chieffy among Goojurs.
Labacipore	i	! :		::	: :	:	9		:	: :	::	: 	
KODANAH CIRCLE.													
Badshapore	:	:		-	:	•	8 7	0 0 13 0		:	:	:	Fixed since Settlement for 73 acres.
Chak Bhogalkherah	:	:		_ :	:	i	:	: :	:	:	:	:	No money rents.
Hasanpore	:	:			:	i	+ -	0 0 128 0	:	:	:	:	
Khisarpore	:	:		:	:	:	10	::	:	:	:	:	For 35 acres.
Karaodah	:	:		:	:	:	•	0 10		:	:	:	
Kherah Mastan	:	:		:	i	:	9 7	•	: 6		:	:	For 216 acres.
Libra	:	:		:	:	ŧ	A	• •		:	:	:	ror 324 acres wer and sand and land on the slope to the river.
KAORANAH CIRCLE.													
Asudpore	:	i		i	:	:	0 15 6	6 0 10 0	:	:	:	:	68 acres.
Islampore Ghasaoli	:	:		:	:	0 10 8		:	:	:	:	:	164 acres.
Ambehtah	:	:		:	:	:		0 8 0	:	:	:	:	54 acres.
Вавее	:	:		:	:	:	ន	:		:	:	:	131 acres.
Bamnaoli	:	:		:	:	224 seers	22	0 8 0	:	:	:	:	26 acres grain rent.
Packarpore	:	i		:	:	:	0 10	: -0	:	:	:	-	90 acres.
Hindukherah	:	i		:	:	0 8 0	:	:	:	:	:	:	306 acres.
Dudahr	i	:		:	:	:	:	:	:	:	:	:	
Esapore Dhan Singh	:	:		:	:	:	2	:	:	:	:	:	143 acres.
Keapore Sheru	:	:		:	:	:	9	:	:	:	:	:	78 acres.
Kasimpore	i	:		:	:	:		:	:	:	: 	:	-
hore Knyten	-	;			;	0 10	3 :	-			ţ	-	
Gengeroo	: :	: :		. :	:	:		: :	1 :	: :	-	-	
	•	•		:	:	:	>	_	:	:	:	-	

APPENDIX No. II.-(Concluded.)

Rent-rates in Pergunnah Kandhlah per kutoka beegah=ons-sixth of an acre.

Name of village.		Rent-rate fire	Rent-rales per kutcha beegah fixed at Settlement.	a beegah ent.	Rent-rat	es fixed by pr since Se	Rent-rates fixed by private agreement at and since Settlement.	ent at and	Rent-ra	Rent-rates fixed in Court.	Jourt.	Remarks regarding rent-rates fixed by
		Wet.	Dry.	Bhoor.	All round.	Wet.	Dry.	Bhoor,	Wet.	Dry.	Bhoor.	private egreement and in courte.
P ARASAOLI CIRCLE,	-	Rs. As. P.	Bs. As. P.	Re. &s. P.	Rs. As. P.	Rs. As. P.	Bs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Bs. As. P.	
Baral (Rejpoots)	. :	3	ŧ	; ;	.	0 13 0	8	. i	. :	i	•	Average of 311 acres brought down by the old rates not yet changed. The newer wet rates are as high as
Parasoali (M. Rajpoots)	:	:		:	1 4 0	1	:	:	ŧ.	:	:.	Ks. 1-5-0. For 74 acres including a little dry
Phoganah, Pati Hukam (Jats) Ditto Deyanut (Jats)	::	:::	. : :	. : :	: 1	1 0 0 0 12 0	0 0 0 00	: .:	.: :	:::	::	land. For 267 acres. For 408 acres; average brought down
Ditto Rajrup (Jats) Joziakherah (Rajnoota)	. :	1:	ij	. : :		118	90	, i i	: ::	:1:	.::	by 10w rates allowed to kinemen. For 169 acres, ditto ditto. For 231 acres, ditto ditto.
Durganpore (Rajpoots)	:::	::	: :	1	11:	0 18 0	80	- C	:	:::	: :	ditto
Rajpore Chajpore Sarnoali	: :	::	:::	· : :	::	5 84	r 0	•	! : !	: t	:::	For 398 acres. For 106 acres; the dry land includes
Futtehpore Kheri	:	0 70 0	9 :	. :	0 0 .	.	. : :	. 3.	1 0 0	0 10 0	.1:	poorer land on the slope. Tenants at will pay about Re, I all rund, and for the greater portion
Kumrudinnager	. :	:	: :	. :	ŧ	0 12 6	: 8 0	: :	:	: :	•	Settlement, have been enhanced in the District Court. For 620 acres, chieffy held by non-
Loi Haria Kherah	::	1:	::	: :	::.	0 14 0	0 0 0 0 0 0	9 0	::	41	::.	resident cultivators. For 98 acres; much of the dry land is of the eary normality and on
					,					•	-	

APPENDIX No. III.

Note on Prices.

In the accompanying statement I have given the harvest prices for 52 years of the great staples of the pergunnah and of the district—wheat, goor and cotton. These price lists have been obtained from a Mahajun family in Jalalabad, Pergunnah Thanah Bhown, one of the chief marts of the district. The prices are believed to be correct, and are generally substantiated both as regards wheat by Mr. Thornton's district average rate (page 145, North-Western Provinces' Settlement Reports) and generally by those obtained from other pergunnahs for the more recent years. There is of course much room for difference of opinion as to what rate would be a fair and safe one to assume, but there can, I think, be little doubt that Mr. Colvin was wrong in supposing that prices had fallen. For my own part I think that a rate of 33 seers to the rupee, half way between the average of 25 years and that of 30 preceding Mr. Colvin's assessment, would have been a fair and safe rate to assume. In practice, and with reference to the upward tendency of prices, I have adopted as a rule in commutation a rate of 32 seers, or Rs. 1-4-0 to the maund.

Regarding the rise both in goor and (what is of less importance) in cotton, there can be no doubt, and there were at the time of settlement plenty of data to show that an addition of 15 per cent. to the former value of this class of produce was fully justified. This rise in price is of very great importance in a pergunnah in which nearly one-fourth of the area is under these two crops.

It would appear that the average price of uncleaned cotton is not likely to fall below 12 seers, while that of goor is so abnormally high that it would be useless to hazard a conjecture regarding the rate of the future.

It is however to be remarked that recent improvements in communications still preserve the advantage which the Upper Doab has always enjoyed in its vicinity to the great markets to the west and south-west of the Jumna. The extension of canal irrigation in the Punjab and the completion of the Agra Canal may, by enlarging the area under cane cultivation in tracts still nearer to the old markets, increase competition; but even all these improvements elsewhere, and even the bridging of the Ganges and increased importation from a canal irrigated Rohilkhund, will not most likely very seriously affect prices in a tract whose market will be extended quite as quickly as competition will increase.

The statistics which I have given are, I trust, sufficient to warrant my differing from the conclusion at which Mr. Colvin arrived, and to justify the recommendation that in the present uncertainty of prices Government should not bind itself for ever to a money assessment calculated upon rates which have already become obsolete.

ALAN CADELL,

Settlement Officer.

	W	heat.		τ	Incleaned Cotton.		Goor.
1818 19 20 21 2 28 4 5 6 7 8 9 80 1 2 3 3 4 5 6 7 8 9 8 8 1 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Average of period from 1818-42, 25 years, including the famine of 1838 and the pre- 16 vious one 34— 25 seers. Average of period from 1838-62, 25 years, including the famine of 1838 and the succeeding one 32— 25 seers. This rate is the average one of 25 years preced ing Mr. Colvin's Settlement, that of 30 years is 33 5	30 23 24 28 34 40 47 46 30 40 50 40 30 40 50 20 20 20 21 40 40 35 40 40 40 35 40 40 40 40 40 40 40 40 40 40 40 40 40	20 740 37 Average rate of period from 1821-40. 20 705 1841-60-85‡ 22 747 1841-62-84 Average rate of the 22 years between the Settlements of Mr. Thornton and Mr. Colvin.	11	18 360 20 Average rate as far as can be ascertained of period from 1821-40. 20 327 1841-60-16 22 349 1841-62-1522 About enethird of the weight is left after cleaning.	25 16 22 26 24 21 12 22 26 26 16 16 17 16 18 16 17 21 18 16 17 21 18 16 17 21 18 16 17 21 18 16 10 8 10 8 10 8 10 8 10 8 10 8 10	19 361 2019 Average rate as far as can be ascertained of period from 1821-40. 20 356 1841-60-175 22 396 1841-62-18

PERGUNNAH BOORHANAH.

Boundaries and position of the tract.—Pergunnah Boorhanah adjoins Kandhlah on the east; it is bounded on the north by Shamlee and Shikarpore of this district; on the south by Barout and Barnawah of Meerut, and on the east by the Kalee River. The Hindun River, running through the pergunnah from north to south, divides it into two distinct portions, the small triangle between the Kalee and the Hindun and the larger tract to the west of the latter river. In the present uncertainty as to irrigation from the Deobund branch, it will be best to postpone the Permanent Settlement of the former tract until the adjoining portion of Shikarpore shall again come under revision at the expiry of the present term of settlement. In the tract to the west of the Hindun, however, there are many estates which are eligible for Permanent Settlement, and there would be more, were it not that the probable extension of canal irrigation renders necessary the exclusion of several townships. This portion of the pergunnah has been divided into two circles, the first chiefly to the south and east, the second circle to the north and west. The areas of the three circles into which the pergunnah is in this way divided are as follows:—

Number of estates.	Total area III acres.	Total suresa- ble srea.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assessment.		of total area.	200	of sasessable		Bate per acre	of cultivated	- FEE
M							Rs.	Ba. #	λo,P.	Ra	,As,i	Р.	Rø.	Δı	.P.
14 estates in the Kalee and Hinden Doab 21 estates in the 1st Trans-	14,039	17,408	2,248	9,16		5,455	17,479	1	3 10	1	8	0	ŧ	14	6
Hindun Circle	26,063	21,947	7,004	18 94		7,420	41,578	1	9 6	1	14	4	3	8	1
10 estates in the 2nd Trans- Hindun Circle	10,920	9,147	1,876	7,77		4,091	12,089	1	1 8	ı	δ	2	1	8	11
Total	51,074	42, 502	6,628	35,874	18,708	17,166	71,146	1	6 8	Ī	10	9	1	15	•

- 2. Estates eligible for Permanent Settlement under the 80 per cent. rule.— Of these estates, 8 in the 1st Circle, 17 in the 2nd and 8 in the 3rd are eligible for Permanent Settlement under the 80 per cent. rule. Owing to a variety of considerations, but chiefly on account of the doubt as to the irrigation from the projected Decbund branch, occasional inequality in assessment, and the uncertainty attending the capabilities of estates on the rivers, I would recommend that the Cis-Hindun tract be for the present excluded from Permanent Settlement. It remains therefore only to consider the circumstances of the larger tract, which is situated to the west of the River Hindun.
- 3. The Trans-Hindun portion.—This tract contains estates which formerly belonged to the various old pergunnahs of the Meerut District, which were settled by Mr. Glyn and Sir Henry Elliot, but the majority of the estates belonged to the territory of the Begum Sumroo, on whose death they were settled by Mr. Plowden.

The rent-rates which Mr. Plowden assumed for this pergunnah are given in page 238, Volume I. of the North-Western Provinces Settlement Reports, but unfortunately it is not very clear to which circles the different rates were applied:—

The first class is described as lying "to the east of the Hindun River, and bordered on by the settled pergunnals of Shikarpore and Phooganah;" the second class as situated "to the west of the same river, and bordered on by Pergunnah Kandhlah." Now Phooganah and Shikarpore are both like Kandhlah on the west side of the river, and I am inclined to think that both rates must have been applied to the Trans-Hindun estates, while the Cis-Hindun portion was included in Pergunnah Sirdhanah. Mr. Keene

appears to have assessed on average rates of Rs. 5-4 wet and Rs. 2-12 dry; but in roughly testing his assessments I have felt myself obliged by the far higher rent-rates which almost invariably prevailed in the best estates to test roughly the jummas of the best circle by the rates used by Mr. Plowden twenty years before.

4. Comparison of the present with the former Settlement.—I have divided this tract into two circles—the first composed of 21 estates, chiefly to the south and east, held almost entirely by Rajpoot, Taga and Jat brotherhoods, and fully irrigated and admirably tilled; the second and inferior circle containing 10 estates to the north and west, owned for the most part by Pathan and Karol landlords, who do little for their estates, and by constantly harassing their tenants restrain the enterprize of the class to which we have generally, in estates not owned by cultivating brotherhoods, to look for improvement. The areas and assessment of the whole tract according to the Settlement Records of Mr. Keene and of Mr. Plowden are as follows:—

Settlement.	Total area in acres.	Total assess- able area.	Culturab le waste.	Cultivated area.	Irrigated.	Dry.	Assessment.	Rate per acre of total area.		Rate per acre	of assessable	Area.	Rate per acre	of cultivated	- Teb
							Rs.	Ra, A.	Ρ.	Rs.	A.	P.	Rs.	A.	P.
Former Settlement	36,334	28,848	5,666	28,182			57,722	1 9	5	2	0	0	2	7	10
Present Settlement	86,985	31,094	4,380	26,714	15,003	11,711	58,667	1 7	8	1	11	7	. 9	0	2
Difference	+651	+2,246	-1,286	+85,32	! !		4,055	0 2	2	0	4	5	 	7	8

5. Decrease in the assessment accounted for.—The decrease in the assessment is in some measure due to the half-asset principle of assessment, but most of the loss to the Government revenue is unquestionably owing to excessive reduction, especially in the large estate of Jaolah. The assessment of this estate was reduced from Rs. 6,110 to Rs. 3,883. For this there were several reasons. The former owners had taken part in the disturbances of 1857, and the estate had been given as a reward for the good service rendered by Syud Imdad Husen of Tisang, Tehseeldar of the Huzoor Tehseel, and in this district it appears to have been thought necessary to settle all reward estates at a jumma of 25 per cent. At first, too, the zemindar must have had some difficulty in dealing with the Rangar ex-proprietors. Mr. Keene writes that he "had the rent-roll to guide him;" but the moment Settlement was over the rent-roll rose with astonishing rapidity, and it now stands at 31 times the Government demand, very little of the increase being due to expenditure on the part of the zemindar. Consideration under the circumstances was no doubt proper; but even if canal irrigation were not to be extended to this estate, I should not have felt justified in recommending this and other similar estates for permanent assessment on the present terms. But besides estates like Jaolah there are some of those held by Bhyacharah communities which unquestionably required relief, but in the case of which the relief has been so enormous as to leave doubt as to whether the present assessment is fitted to be other than a temporary one. As a specimen of this class I give the first estate on the list of those eligible for Permanent Settlement, Atawah. This estate is owned and cultivated by one of those admirable Jat communities, and was assessed by Mr. Plowden at rates of Rs. 3-12-0 per acre on the assessable and Rs. 3-13-6 on the cultivated area. Mr. Keene reduced the assessment from Rs. 2,920 to Rs. 1,929; the new jumma falling at rates of Rs. 2-6-9 on the assessable area and Rs. 2-10-2 on the cultivated. Now a very large reduction was no doubt necessary to bring the assessment down to a half-asset one, but Atawah is more fully irrigated than any of its neighbours, and ought to bear a higher instead of a lower rate than that of the estates in its vicinity. One cannot regret that a township which previously paid so large a quota to the State should for a term of years be leniently assessed, but I do not think that Mr. Keene himself, if a Permanent Settlement had been before him, would have made the large reduction which he granted: It would be easy with the sanction of Government to raise the present jumma to the standard to which the assessment of its neighbours points; but, unless this be done, I would recommend that such estates should be excluded from Permanent Settlement.

6. The Permanent Settlement of eight estates recommended.—Excluding, then, such estates as Jaolah and Atawah for the reasons given in detail in the remarks regarding each estate, and those also into which ranal water is shortly to be brought, the estates given below appear to me to be eligible for Permanent Settlement:—

1	Sames of est	ntes	Total area in acres.	Total assessuble area.	Culturable waste.	Cultivated area.	Irrigable,	Dry.	Assessment,		Rate per acre of			Rate per acre of	COLLIVENOU S.FOR.	Remarks.
									Rs.	R	s.A.	ιP.	R	ı,A	s.P.	-
1.	Ankaolee	•••	851	565	105	460	ten	297	971	ŀ	11	6	2	1	9	On the river.
,2.	Bitsodah	•••	1,923	1,106	63	3,044	789	262	2,689	2	6	9	9	9		
8.	Barsodah	***	1,718	1,597	60	1,587	1,184	858	4,216	*	10	a	9	11	11	
4.	Barkata Bo	WR	296	255	15	240	135	105	613	9	•	6	3	8	10	1
5.	Kutabpore	•••	654	483	74	409	206	203	853	ı	19	3	2	1	4	Ditto.
6.	Minkalee	***	752	680	43	687	369	268	1,365	2	0	3	3	3	8	
7.	Mahaljana fee).	(maå-	798	889	107	593	189	404	, 1,800	1	18	9	2	8		Ditto.
8,	Nagwa	***	1,724	1,305	139	1,166	806	360	2,305	ŀ	12	8	1	15	6	Ditto.
	Total	***	7,911	6,690	695	6,045	3,008	2,952	14,306	2	9	3	2	6	7	

7. Reasons for excluding the remaining Estates of the Trans-Hitdun Tract.—The following estates, on the other hand, which are eligible under the 80 per cent. rule, are not recommended for Permanent Settlement—in some cases, because canal irrigation will be extended to them; in others, because the present assessment is hardly adequate:—

													Rate per acre of		Irrigation promised from Canal,	Remarks.
													.As		eod.	•
Bahlolpore]	396	376	3	878	251	123	15410	1	11	7	1	n	10	70	
Barkatal Mogblan .		489	408	91	367	194	193	506	1	8	10	1	4	11	-	1
Bagianah		694	647	23	0X4	500	100	1,126	1	11	10	1	12	10	20	
Jbanderi		582	HAD	91	377	137	250	676	1	7	3	1	12	8	***	On the
Satheri .		527	471	7	464	800	183	991	1	15	3	1	15	9	***	ylver:
Kuravah .		985	899	1700	771	668	88	1,941	3	2	3	3		3	140	
Kurthal .		1,202	1,072	100	972	BAY	325	1,928	1	12	9	1	15	9	686	
Kharar .	j	2,805	2,619	460	2,159	1,382	827	5,986	3	4	7	3	13	4	740	
Kuralsee .		1,522	1,417	107	1,810	628	007	2,207	1	8	11	1	11	0	***	
Total .	••	10,086	9,186	1,006	6,180	5,369	2,811	17,899	1	15	3	:	8	0	Mass	4.

Of the ten estates in the second class, there are only two which are ineligible for Permanent Settlement under the 80 per cent. rule. The areas and assessment of the remaining eight are as follows:—

Total area in acres.	Total assess- able area.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assessment.	Rate per acre on assess- able area.	Rate per acre on cultivated area.
8,939	7,375	805	6,570	8,071	8,499	Rs. 10,060	Rs. As. P. 1 5 10	Rs. As. P.

There is, it will be seen, a very considerable dry area; and as the new rajbuha will pass within 2½ miles of the most distant estate, I have thought it desirable to exclude the whole tract from Permanent Settlement. It is true that the Canal Department only proposes to give water for 1,290 acres in five estates; but there can be little doubt that if the more recently adopted principles regarding distribution are carried out, a larger supply of water will be placed at the disposal of this tract, and irrigation for 1,500 acres annually distributed in proportion to the requirements of each estate would unquestionably increase the assets of the eight estates by more than 20 per cent. of the assets assumed at Settlement.

Abstract of Recommendations.—I have therefore recommended for Permanent Settlement only eight estates in this pergunnah, and regarding these estates it is to be remarked that it might be well if the Irrigation Department were again to consider whether canal irrigation is likely to be introduced. At present they are distant from any proposed rajbuha, and as they have already reached a high standard of cultivation and are assessed at high rates, they appear to me to be entitled under the rules to Permanent Settlement; but I would recommend that in this pergunnah, as in Kandhlah, the assessment to be declared permanent should be stated in grain or other produce.

Numbers of estates.	Total area in acres.	Total assess- able area.	Culturable waste.	Cultivated area.	Irrigated,	Dry.	Assessment.	Rate per acre on total area.	Rate per sore on assessable area.	Rate por acre on cultivated area.	Remarks.
							Ra,	Rs. As.P.	Rs. As. P.	Ra. As.P.	
Right estates recommend- ed for Per- manent Set- tlement.	7,911	6,690	605	6,085	8,883	2,2 52	14,306	1 12 11	2 2 3	257	
Twenty- six estates eli- gible under the 80 per cent. rule, but not re- commended.	26,087	22,758	2,495	20,258	10,764	9,494	3 8,378	176	1 11 0	1 14 4	
Eleven estates entirely in- eligible.	17,076	13,059	8,528	9,531	4,111	5,42 0	18,462	1 1 4	167	1 15 0	
Total	51,074	42,502	6,628	85,874	18,708	17,166	71,146	l 6 3}	1 10 9	1 15 9	

APPENDIX L

List of Estates in Pergunnah Boorkanah.

Thirty-four estates with 80 per cent. of the assessible area under cultivation.	Eight estates recommend- ed for Permanent Sel- tlement.	1. 2. 3. 4.	Ackaeli. Bisacdah. Barkatah Rawa. Baracdah.	5. 41. 7. 8.	Kutabpore. Mindkali. Mahaljana (massee.) Nagwa.
	wenty-sir Estates the ex- olusion of which from Per- menent Bettlement is re- commended.	1. 2, 4. 6. 7. 8. 9. 10.	Atewah. Aterna Allipur. Bagianah. Babioipur. Barkata Moghlau. Tandah. Todah. Joolah. Jandhere. Habibpur Bikri. Husenabad. Khinarpur. Rainar Atawaa	14, 15, 16, 17, 18, 19, 20, N1, 22, NA, 26,	Rasulpur. Rukaupur. Satheri. Sarai. Shahdabar. Kuralsi. Korawah. Kurthul. Kharar. Garhmalpore. Lohanah. Mandaoli. Mandwarah.

APPENDIX 11.

STATEMENT SHOWING RENT-RATES IN PERGUNNAH BOORHANAH.

The rent-rates are for the kutcha beegah of the district = one-sixth of an acre.

	H	Name of Village.	lage.		Ĕ T	red at S Doputy	Fixed at Settlement by Deputy Collector.		. Bined els	since Bettlement by private agree- ment.	loment dy pr mont.	rioale a	į	Fia	Fixed in Opart.	ť	Remari	ts regardin	Remarks regarding rent-rates fixed by private agres-	by private agre	ż
.xedonn M			,		Wet.		Dry.	Bhoor.	All round.	Wet.	Pag .		Bhoor.	Wet.	Dry.	Bhoor.		-	ment and in Court.		1
	18T CLASS	18T CLASS ESTATES WAST OF HINDUM.	uer or Hu	DUX.		1						<u> </u>		Ì							l
	Atali	ŧ	:	:	:			:	:	14	•	•	:	:	:	•	797	sores. Mo	Much land on the slope.	Q.	
OR	Atawah	:	:	:	:	•	:	:	:	0 14 0		•	:	:	•	:					
•	Aokaoli	:	Ī	į	:	_		:	:	_			:	ť	::	:	178		Land on the slope.	•	
•	Bitaodah	:	:	:	:	_	- :	:	:	=			:	- - - -	0 18 0	:	808	" In (In Court in commutation for 11 scres.	tion for 11 acre	ė
10	Baraodah	:	:	:	:	_	:	:	:	63 (0	:	:	:	:	988 888 888	:			
D	Bablolpur Hathaeri	athasri	:	:	:	*	•	:	:	0			_ :	:	:	:	172	2			
-	Pagianah	:	:	:	:	_	:	:	:	0 18	0		:	:	:	:	214			•	
50 (Sarbanah	: !	:	:	:	•		:	:	9			:	:	:	:	2,074		Much dry land on the slope.	e elope.	
.	Barkston Mr hal Raws	hal Kawa		:	:	_	- :	:	:		_		i	:	i	:	8	:			
음;	Barkatan Mahai Moghian	thai Mogble		:	:	_	:	:	:	٠.			i	:	:	:	Z .				
-	Jandheri	:	:	:	:	•	:	:	:	0 1 5	_		:	:	:	:	223	2			
_	Sather	:	:	:	:	<u>.</u>		:	:	7		-	:	:	i	:		=			
2	Kuralsi	:	:	:	:	•	:	:	:	0	_		:	:	:	:	209	2	•		
	Kurthal	ī	:	:	:	-		ī	:	0 16 0	99		:	i	:	:	The	bigher rate	The higher rate some years after Settlement for 74 sores: the lower ones before Settlement for	Settlement for Bettlement for	.
		,								:							7	163 acres.			;
_	Kutabpur Datanah	tanah	:	:	∞	_		:	:	:	_		:	:	:	:	° Ž	No other rent-rates.		,	
10	Mindkalee	:	:	:	0 10	0	0 2	:	:	0 16 0	<u> </u>	0	:	:	:	:	10	Sacres by	For Shares by occupancy tenants to under-tenants.	to under-tens	į
_	Mahaljenah	:	:	:	00	0		:	:	>	= S	-	÷	:	:	:	Kate	STREET NO.	estined at Bethlement for 304 acres. The tenants	ores. The tenan	2 7
												>						nnd rate of	at the cost of a new lands and the land of an and anner l'	Web and anner	=
						_											. 	dry. Rates	Rates of about Re. 1 and anuas 10	danuas 10 we	# 0T0
	,							_		:	_	_					=	sed for 100	fixed for 100 seres by the Zemindar.	indar.	
	Nagwan	:	i	:	:	· _		: :	:	2 :	> •			: :	•	: :	3 5	ores. Much	dole ent no puer	ź	
200	Knrawsh	: :	: :	: :	: :	-	-	: :	: :	# # F	9 6	-	•	: :	: :		120	2 :	120 ::		
_						•	•		•)	•	•				:	: -	•			

PAD C	2ND CLASS ESTATES WEST OF HINDUN	WEST OF H	NDCKI											.	-	_	
Boanah	: :	:	:	:	:	:	:			0		:	:			 :	acres.
Habibp	Habibpur Sikri	:	Ė	:	:	:	į	0 1 2 0	* 0		•	:	0 0	6	•		389 ,, The higher rate has been recently fixed. The rates fixed in Court have been fixed in com-
ŧ															_		_
Husenpar		:	:	:	:	•	:			x		:	:	:	-	:	462 acres. Dry land on slope, and much of the land in the hands of proprietors.
Jaclah	:	:	:	:	i	:	0 18 6	0 14			•	:	:	•		<u>:</u>	
Raipur	Raipur Aterna	:	:	:	:	:	:	0 15	0	a	•	:	:	: -	-	-	170 "
Rokanp	Rukanpur (uninhabited)	ited)	:	0 12 0	0 8 0	:	:			8	•	:	0 16 0	6	•	:	287 " In Court for 10 acres. In commutation
Serai	:	:	:	:	:	:	:	0 11			-	:	:	-		_	Off Casis of Higherers.
Garbma	Garbmalpur Sikri	:	;	1	:	:	:	0		-	0	:	1	:	-	_	
Lobsanah	:. q	:	1		:	:	:		0	0	0	:	0 18 0	:	_		248 In commutation for 23 acres.
Mandwarah	arah	:	ě	:	:	:	:	0 15			•	:	:	:		:	. 2
ESTAT!	ESTATES IN HINDUM AND KALER DOAR.	AND KALER	DOAB.														
Basi	:	:	:	:	:	3	:			0 10	•	:	:	·		-	172 Land on the slope.
Bahsanah	: q	:	:	:	:	:	i	0 15	0	:		ŧ	:	:		:	
								l	1		ſ						
Tandah		:	:	3	-			_	۰ - د	- C						-	
Todah	:	:	:	: 1	: :	::	::	· -	-		9 C	: :	: :	: :		:	58 Land on slope.
Husena	Husenabad Bambhara		:	:	:	:	:	' : —-		:		:	•	:		_ :	No money rents.
Khizarpur	··· and	:	:	:	:	:	:	:		:		:	:	: 	_	:	Ditto The whole area is cultivated by pro-
Reenlang	:	;		;				-	•	•				-			prietors.
Ricoli Neglet		:	•	•	:	:	:		•	77 0		:	:	:	_	:	2
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Shahdabad	ped	:	:	:	:	:	:	_ 	0	8	0	:	:	:	_	:	2
Alipar	Alipur Atsanah	:	:	i	:	:	:		00	0 81 81 81	00	i	0 14 6	0 6	0	:	384 , In Court for 474 acres. Some land on alope.
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	:	:	:	:	:		9		•								TAR TAR BANGE THOUSE THESE CHAPTERING OF THE SELECTION

PERGUNNAH SHIKARPORE.

The boundaries and area of the pergunnah.—The Pergunnah of Shikarpore is bounded on the north and south by Pergunnahs Bagrah and Boorhanah respectively; on the east by the Kalee River; and on the west by the Shamlee Pergunnah. The River Hindun flows through it from north to south, dividing it into two unequal portions.

Numbers of estates.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assessment	Rate per acre of total area.	Rate per acre of assess- able area.	Rate per acre of culti- vated area.
44 estates east of Hindun 18 estates west of Hindun		40,133 14,276		36,265 12,222	-	24,517 2,762		Rs. As. P. 1 7 2 2 0 4	Rs. As. P	Ra. As. P. 1 13 2 3 0 8
Total	64,015	54,409	5,922	48,487	21,208	27,275	1,03,301	1 9 10	1 14 4	2 2 1

The Cis-Hindun Fortion.—The eastern and larger tract contains land of varying quality, the greater portion being rich loam, which, however, is traversed by two lines of sand. Along the Kalee, too, on the east, and the Hindun on the west, there is poor and broken land on the slope, but this is made up for by the fine khadir, especially on the last-named river. Irrigation too from earthen wells is practicable, and, although in the sandier estates difficult and expensive, is very general. On the whole, then, the soil is good, and it is held for the most part by the very best classes of cultivators—the Jats of the Balean Chaorassi, the Tagas of the twelve townships which lie round Mubarikpore, and the Sanis in the neighbourhood of Shahpore. The proprietors are chiefly Jats, Tagas and Pathans.

The areas and assessments at the former and recent Settlements were as follows:-

Settlement.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assesment.	Date to see the control of				Kate per acre of assess- able arcs.			Kate per acre of culti-	
Former Settlement, Present Settlement,	45,468 45,688			29,854 86,265	11,748	24,517	Rs. 64,727 66,125	Rs.	As 6 7	. P.		As. 11 10	P. 8 4	Rs.	As. 2 13	P 8 2
Difference	170	+2,260	3,651	+6,411		•••	+1,898	+0	0	5	-0	1	4	┝	5	6

Circumstances under which the tract was settled.—This tract was settled by Mr. Keene under the impression that the Deobund Branch of the Ganges Canal was shortly to be opened; and this circumstance, combined with the fact that Settlement operations were carried on during the famine, accounts for the little change that was made in the assessment.

2. The Cis-Hindun portion not generally eligible for Permanent Settlement.—The prevailing rent-rates given in Appendix II. show that the present assessment is most moderate, but it is only in very exceptional instances inadequate. Had the

Decound Branch not been in contemplation, there are many estates which otherwise comply with the prescribed conditions; but in the face of so important a change in the circumstances of this tract as that which will inevitably follow the introduction of canal irrigation, Permanent Settlement is out of the question, except under the most peculiar circumstances; for, although the land is, on the whole, good, and the cultivation eareful and irrigation general, there is so much land still dry that there is hardly any estate, the capabilities of which will not be increased by one-fifth, if it should receive a moderate share of canal irrigation. There is, indeed, only one estate in this tract which can be confidently recommended for Permanent Settlement, and this estate is recommended not because improvement is unlikely, but because the present jumma is far higher than that of many estates fully watered, and with all the benefits to be derived from the canal.

3. Only one estate recommended for permanence.—This single estate is Kakra, the area of which, the assessment, and the incidence of the land revenue are as follows:—

Name of estate.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assessment.	Rate per acre on assess- able area.	Bate per acre on culti- vated area.
Kakra	1,433	1,317	106	1,211	874	837	Rs.	Rs. As. P.	Rs. As. P.

This estate, therefore, with more than one-quarter of its area dry, and a considerable proportion of this sand, bears a higher rate of assessment than with one or two exceptions the most fully irrigated estates in any other pergunnah in the district, and indeed the assessment of this pergunnah suggests the doubt whether even the most fully assessed estates in other and as is universally acknowledged superior tracts, pay the proportion of land revenue which might fairly be required of them; for, notwithstanding the high rate of this and similar assessments, the village papers themselves show that these assessments are light.

- 4. Increase of declared assets since Settlement.—As an example, I take the Jat township of Goelah. Out of an assessable area of 1,841 acres, 1,747 are under cultivation. Of these 857 (not quite one-half) are irrigated, and of the dry area 205 acres are sandy soil. Mr. Keene reduced the old jumma of Rs. 4,199 to Rs. 4,141, being at the rate of Rs. 2-5-4 per acre on the cultivation—a high assessment for an estate with so large a proportion of unirrigated land. But high as Mr. Keene's assessments often are compared with those of other pergunnahs, the nikasis show that they are moderate, and the rent-roll of Goelah has for five years averaged three times the assessment; and the irrigated rate of Rs. 1-4 per kutcha beegah, or Rs. 7-8 per acre, fixed by me last year in commutation in this and other similar estates in the vicinity, was promptly followed by a rate of Rs. 1-9 fixed by arbitration for land distant from the village. were not, as far as I know, at the time of Settlement data to warrant an assessment much above that fixed by Mr. Keene; but there are now plenty of facts to authorize a very substantial increase, and a moderate share of canal irrigation will certainly enable this prosperous township to bear with ease an assessment rate as high as that of Kakra.
- 5. With reference to Deobund Branch a Temporary Settlement recommended.—It is of course impossible at present to ascertain what estates the Deobund Branch will affect; but recent orders in the Irrigation Department show that long-talked-of project is now certain to be carried out; and, this being the case, the Permanent Settlement of this tract must be delayed; for, with the exception of Kakra, there is no estate eligible under the 80 per cent. rule, the assets of which will not be very largely increased by canal irrigation. I would therefore recommend that the Settlement of this tract

be sanctioned for 20 years—a period which will allow of the development of irrigation from the Deobund Branch, if that work should be speedily commenced. In making this recommendation, I need hardly explain that I have looked to the general character of the assessment, and that there are, in this tract, as in most others, estates which are assessed at very much lower rates than their neighbours. Here, as in most other pergunnahs in the district, the openness and honesty which have, as a rule, characterized the Bhyacharah communities stand out in marked contrast to the conduct of wealthy zemindars; and although Mr. Keene took the greatest care that even Jat communities should not be assessed above half assets, he has not been invariably successful in bringing up the standard of zemindaree estates and correcting the entries, which appear to have been false and against Government in proportion as the zemindar was rich and powerful.

6. The general features and area of the Trans-Hindun portion.—To the west of the Hindun are situated 18 estates, owned and cultivated almost entirely by Jat communities. The level upland is of nearly unvarying excellence, and the low-lying land along the river is, on the whole, good. The only positively inferior soil, therefore, is that which lies on the slope towards the river. Irrigation from masonry and earthen wells was general long before the Kalarpur Branch of the Eastern Jumna Canal was opened, and the extension of canal irrigation to this tract must have been due more to the desire of the Canal Department to substitute canal for well irrigation, and to collect high water-rates from an industrious population, than to any wish to improve the cultivation of the tract. Indeed, in the estates to the south, in which water is most required, the supply is so uncertain that the rajbuha is of little use; and it is a subject of regret that here, as elsewhere in this district, canal water has been wasted in fertile neighbourhoods which do not require it, while close by there are still arid tracts, the value of which would be doubled by a more enlightened system of distribution.

As far as can be discovered, this circle had, when Mr. Keene saw it, changed but little since the former Settlement, when it was assessed by Mr. Glyn, thirty years before. The subjoined statement shows the areas and the incidence of the assessment according to the papers of the old Settlement as revised by Sir Henry Elliot, and those of the new Settlement concluded by Mr. Keene. Unfortunately enough no data regarding the area under irrigation at last Settlement are procurable; but, to judge from the jummas which were paid with ease during the thirty years which Mr. Glyn's assessment lasted, irrigation must have been nearly as universal as it is now.

Settlement.		Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assesment.	Rate per sore of total area.	Rate per acre of assessable area.	Rate per acre of cultivated area.
								Rs.	Rs.As.P.	Rs.As.P.	Rs.As.P.
Former Settlement		18,475	12,409	1,704	10,705			41,045	286	3 4 11	8 18 4
Present Settlement	•••	18,377	14,276	2,054	12,222	9,460	2,762	37,176	204	2 9 8	8 0 8
Difference	•••	98	+1,867	+350	+1,517	•••	•••	-3,869	-089	-0 11 8	-0 12 8

7. Fitness for Permanent Settlement considered.—Of the eighteen estates which compose this fine circle, seven are ineligible for Permanent Settlement, because less than 80 per cent. of the assessable area was under cultivation at the time of Settlement. It therefore only remains to consider whether the eleven estates which are left comply with all the required conditions. The rent-rates which Mr. Keene assumed to be suitable for land in this circle were Rs. 7-4-0 per acre, or Rs. 1-3-4 per kutcha beegah, on irrigation; and Rs. 3 per acre, or annas 8 per kutcha beegah, for unirrigated land. The dry land is of such varying quality that it is difficult to fix any uniform rate which shall suit the lands of different estates, but the rate which was assumed appears to be both safe and suitable enough throughout the tract. That the wet rate is most

moderate is shown not only by those at present in force throughout this circle, but by the only rates which were recorded in Sir Henry Elliot's notes,—those, namely, of the Bhyacharah village of Sissaoli, which more than thirty years ago, even if the Meerut District beegah and not that of the village be taken as the standard, were Rs. 6-14-0 per acre for cultivated land, and Rs. 4-6-0 for culturable waste. In roughly testing Mr. Keene's assessments, I have assumed the rent-rate for wet land, which has been clearly shown to be moderate, not only in this tract, but in every highly cultivated neighbour-hood throughout the district; and, applying this rate of Rs. 7-8-0 per acre to the irrigated area, and one of Rs. 3-12 to the dry, I have tested the assessments at which Mr. Keene arrived. And I may remark in passing that the No. II. Statements in no way do justice either to Mr. Keene's system or to its results; for in these papers this pergunnah and Boorhanah have been divided into circles unknown to Mr. Keene, and to the soil areas were applied rates framed by other officers for other and distant tracts.

8. Seven estates recommended for Permanent Settlement in Trans-Hindun tract.—The result of my scrutiny is that the following estates are in every way eligible for Permanent Settlement, inasmuch as they are highly cultivated, generally irrigated, and more or less fully assessed:—

Names of estates.	Total area in acrea.	Total amenable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment,	Rate per acre on as- sessable area.	Rate per acre on culti- vated area.	Remarks.
1. Bhaorah Khoord, 2. Sisaoli 3. Sheopore 4. Alawalpore 5. Garhee Nowabad, 6. Mohamad po r e, Rai Singh 7. Mundabhar Total	767 2,887 200 518 636 1,146 1,054	688 1,818 128 470 501 894 961	62 95 15 29 20 87 46	626 1,723 113 441 481 807 915 5,106	626 1,627 78 433 431 567 843	96 35 8 50 240 72	2,436 7,308 810 1,491 1,563 2,487 8,004	3 8 8 4 0 4 2 6 9 8 2 11 3 1 11 2 12 6 8 2 0	Rs. As. P. 3 14 3 4 3 10 2 11 11 3 6 1 3 3 3 3 1 4 3 4 5	On the alope.

There is in the assessment of some of these estates a greater inequality than is perhaps desirable; but at the time of revision a Permanent Settlement was not contemplated, and the non-disturbance of existing obligations was held to be of more consequence than the equalization of the Government demand.

9. Four estates eligible under the rules excluded from Permanent Settlement.—The estates in this circle which I propose to exclude from Permanent Settlement are:—

	Names of estates.		Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigabie.	Dry.	Assesment.	Eate per acre of assess- able area.	Rate per acreof culti- vated area.
1. 2. 3. 4.	Bhaorah Kalan Jeitpur Saotu Kheri Sundyan Total	***	2,887 395 1,046 541 4,869	2,523 352 729 501 4,105	234 81 88 30 888	2,289 821 641 471	1,730 296 343 340 2,709	25 298 131	Rg. 6,589 1,008 1,625 1,487	2 13 10 2 3 8	Rs. As. P. 2 14 1 3 2 3 2 8 7 3 0 6

With the exception of Jeitpur, all these estates have a considerable dry area, which a better distribution of canal water will greatly improve. Jeitpur, on the other hand, owes the lowness of the present assessment to the depressed state of the village at the time of Settlement; and, as this depression was due entirely to the consequence of

misconduct during the mutiny, it cannot be held to constitute any ground for a permanent lowering of the Government demand.

10. Abstract of proposals made regarding the Shikarpore Pergunnah.—Of the 62 estates, then, which compose the Shikarpore Pergunnah, 13 are ineligible for Permanent Settlement, inasmuch as less than 80 per cent. of the assessable area is at present under cultivation. Of the 49 which remain, one estate east of the Hindun and seven west of that river are recommended for Permanent Settlement, while 37 east of the Hindun and four to the west of that river are excluded.

The areas and incidence of the assessments in these three classes of estates are as follows:—

Numbers of estates.	Total area in acres.	Total asses-	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Asness- ment.	Rate per	acre of	.total area.	Rate per	acre of as-	area.	Rate per	cultivated	area.
Eight estates recommend-							Ra-	Rs.	As	. P	Rs	. As	.Р.	Rs.	As	. P.
ed for Permanent Set- tlement	8,140	6,777	460	6,817	5,479	838	22,844	2	12	11	8	5	11	8	9	10
manent Settlement Thirteen estates with less than 80 per cent. of the assessable area cultivat-	43,349	38,678	3,100	85,578	1 2, 770	22,808	67,644	1	9	0	1	12	0	1	14	5
ed	12,526	8,954	2,362	6,592	2,959	3,633	12,813	1	0	4	1	6	11	1	15	1
Pergunnah Total	64,015	54,409	5,922	48,487	21,208	27,279	1,03,801	1	9	10	1	14	4	2	2	1

It is recommended that the assessment of the eight estates be fixed in permanence in the manner proposed with reference to the permanently settled estates in Kandhlah.

A. CADELL,

The 9th February, 1870.

Settlement Officer.

APPENDIX I.

List of Estates in Pergunnah Shikarpore.

49 estates with 80 per cent. of the assessable a rea under cultivation.	8 estates re- commended for Perma- nent Settle- ment.	1. 2. 3. 4.	Alawaipur.	5. 6. 7. 8.	Kakra. Garhi Nanabad. Mahomedpur Rai Singh. Mundabhar.
	41 estates, the exclusion of which from Permanent Settlement is recommended.	12. 13. 14. 15. 16. 17.	Bahadurpur Garhi. Bhaora Kalan. Paparhouli, Palrah. Palri. Pur Balean. Purah. Jaitpur. Jiwnah. Chandpur. Hazurnagar. Khubanpur. Dabal. Dinkarpur.	34. 35. 36. 37. 38. 89.	Morkohuka.
13 estates with less than 80 per cent. of the assessable area under cultivation and ineligible for Permanent Settlement.		1. 2. 8. 4. 5.	Anchaorah. Basi. Bahramgarh, alias Ghafurgarh. Khanpur. Dhindaoli, Afghanan. Shikarpore.	7. 8. 9. 10. 11. 12.	Sadarudinnagar. Alampur Sherpur. Alumpur. Umarpur. Kutas. Kamalpur. Halaoli.

APPENDIX II.

STATEMENT SHOWING RENT-BATES IN PERGUNNAH SHIKARPORE.

The rent-rates are for the kutcha beegah of the district =one-sixth of an acre.

.19	Name of Village.	illage.	Maed at	Maed at Settlement by Daputy Collector.	dy Dopusy	Fised since	18 Bettlemen	Tiped since Settlement by private agreement.	greement.	N.	Fixed in Court.	- ;	Remarks regarding rent-rates fixed by private
Namp)	Wet.	Dry.	Bhoor	All round.	Wet.	Dry.	Bhoor.	Wet.	Dry.	Bhoor.	agreement and in court.
-	ESTATES WEST OF HIEDUR.	or Hindun.	i	i	:	:	•	:	:	:	:		95 acres.
64	Bhaorah Kalan	:	i	:	:	i	0 14 6	0	:	i	i	:	692 ,, Irrigation is overstated, so that the
	Jaitpur	:	:	:	:	:		2	:	:	:	i	distributed races are low. 92 ,, nearly one-third of the estate.
4 10	Khanpar Sisaoli	::	::	;:	::	: :	1 1	0 0	::	::	::	: :	11 ". In Sir Henry Elliot's notes the
-													rates are recorded Rs. 1-6 on cultivation and as 14 on waste; but it is not stated whe-
			,										ther the kutchs beegsh was the beegsh of the people, or that of Meerut, to which dis- tries this negonital then belonged.
•	Sawtu	:	0 8 0	0 8 0	0 + 0	:			:	:	:	i	These rates are levied for 130 acres.
	Sheopur	:	:	:	:	:	•	0 12 0	:	:	:	:	91 acres.
×0	Shikarpore	:	:	:	:	:			:	I.	:	:	705 se Irrigation appears to be oversuated,
9	Sadarudinnagar	:	:	i	:	:		0 6 0	i	:	i	i	BCT66.
2:	Alampur	:	:	:	:	:	0 150		:	:	:	:	2
=	CDAK Alampur	:	:	:	:	:		:	•	:	:	:	34 , Land envered wet, put it is poor tand on the slope towards the river.
22	Alawalpur	:	:	:	;	:		:	:	:	:	:	55 acres.
	Ghafurgarh		:	:	:	:			:	:	:	i	217 ,, Some land on alone.
2 2	Aneri Sundiyan Garbi Nauabad		: :	: :	: :	::	00	2 8	::	1:	::	: :	Sy ". For \$17 acres. The rate fixed in Court was
	•												arringed by the parties. In this estate there are as high rates as anywhere in the circle, but the average is lowered partly by
								,					the consideration shown to favoured culti- vators and partly by the slope of the land.
	Manchedpur, Kai Singh Manchhar		: :	:	: :	:	0 0	۵;	:	:	:	:	216 acres. A good deal of land on the slope.
8	Halaolee	?	:	: :	: :	: :	• •	9 0 9 0	: :	64	; cs	: 1	390 , In Court for 28 acres. Much land on slope.

APPENDIX II.

STATEMENT SHOWING RENT-RATES IN PERGUNNAH SHIKARPORE.

The rent-rates are for the kutcha beegah of the district—one-sixth of an acre.

470	Name of Village.		Collector.	Collector.	·	mos castemans of historic official	- A E					Remarks regarding rentrates fixed by private
Иать	,	Wet.	Dry.	Bhoor.	All round.	Wet.	Dry.	Bhoor.	Wet.	Dry.	Bhoor.	agreement and in Court.
	18T CLASS BSTATES RAST OF HINDUM.											
-		:	:	:	:	1 18 0	•	:	:	:	:	9 hores.
64	Alayarpur Pati, Mobarikpur	•	:	i	:		0 18 0	:	:		:	18 ,,
*	Shahpur	:	:	:	:		8	:	1 1 0	0 10	9	O In commutation for 260 acres, on basis of
-	Shoron Pati, Peer Bakhsh	:	:	:	:	0	∞	:	:	:	:	bixable of 5 years, less 10 per cent.
10	Ditto Pati, Sheo Singh	Ī	:	:	i	1 28 0	0 10 0	:	:	:	:	88
0	Ditto Pati, Harsahai	:	:	:	:	69	:	0 0	1 4 0	:	:	By agreement for 54 acres. In commutation
7	Kakrah	1		;	-	1	١	~ «	3	;		for 37 agree held by mon-resident cultivators.
- 0		}	:	•	-	• •	\$:	•	:	
0 0	Манерии	: :	:	: :	:	9		:	: :	:	:	
•		:	i	:	:	•	•	:	•	: <	: 	* 70
20	Goelah	:	:	:	ŧ	1 4 0	9	0	9 64		:	188 acres by agreement, and for 40 acres in
									3	0 10 0		commutation. The Rs. 1-9-0 rate was fixed
Ħ	Mubarikpur	:	:	:	:		9	:	:	E	:	by the parties.
13	Basi	į	:	!	:	9 8	0 18 0	:	:	:	•	14.,
	2nd Class Betaths Mast of Hindus.	-										
-	Adampur	:	:	:	ŧ	0 14 0	8 0	·	0 12 0	0 8 0	:	445 acres. by private agreement; for 76 acres
64	:	i	:	:	:	138		0	:		:	in commutation on basis of nikasis.
60	Bahadurpur Garhi	i	:	i	:	0 0 1.	0 10 0	:	:	:	:	176
•	:	:	:	:	:		a	:	100	0 8 0	:	198 , by agreement. For 91 acres in com-
19	Palri	:	ï	:	:	i	i	:	00	2	:	mutation,
•	Pur Baloan	:	:	:	:	7	0	9 0	00	3 G	9	0 1,123 acres by agreement. In Court 380 acres-
						•			0	2	•	
			-		-		_	_) 		> >	9

148 acres; but as irriga to nie understated the rates are apparently higher than they really are. Rs. 1-1 and As. 9) are probably more correct. Rates have been fixed in	commutation for 29 acres. In commutation for 64 acres.		162 acres.	48 acres. 50 ",	24.8 r 178 x	73 8 145	117 20 66 449 22	160 " fixed at Settlement. 228 " 161 " 162 " 185 " 186 " 187 " 187 " 188 " 18	988 m
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:	i		i	::	::	wahs	::::: 4	Zonardar	!
Purah	Hasur Negar		Khubanpur	Dinkarpur Dolahrah	Dhanayan Dhandaoli	Rasulpur Shahjud Sohnjud, 12 biswahs	Sobnju, 8 biswahs Umarpur Karaodi Kalianpur Kamalpur	SED CLASS BEZATES BAST OF HIDDUS Paparhaoli Jiwnah Chandpur Balaru Mahomedpur Zonardar Mandaoli	Anchaorah Kutas
~	Ø		6	22	25	122	25 20 20 20 20 20 20 20 20 20 20 20 20 20	M4 84 84	9 01

WITH the foregoing letter are submitted-

Reports on Pergunnahs Boorhanah, Shikarpore, and Kandhlah; on the Shamlee Tehseel; and on Charthawal and Bagra in the Moozuffernuggur Tehseel.

Books containing Inspection Notes regarding the estates in the nine pergunnahs eligible under the 80 per cent. rule for Permanent Settlement.

SHAMLEE TEHSEEL.

1. The Shamlee Tehseel comprises the whole of the north-west portion of the district, and contains the Pergunnahs of Shamlee, Thanah Bhown, Kairanah, Jhinjhanah and Bidoulee. The last-named pergunnah, inhabited for the most part by Goojurs, has been excluded from Permanent Settlement on account of the general backwardness of the tract; while in Jhinjhanah and Kairanah comparatively few estates are eligible under the 80 per cent. rule. These few are almost without exception the canal-irrigated villages to the south-east of the former pergunnah and the east and south-east of the latter. By far the greater portion of both pergunnahs is as unfitted for Permanent Settlement as is Bidoulee; and, like Bidoulee, they are held for the most part by lawless Goojurs, or by Jats and Rajpoots who are little more orderly if slightly more industrious.

In Thanah Bhown and Shamlee, as will be shown in detail later, most of the estates which are in every way eligible for Permanent Settlement are those owned by Jat communities. In this tract, as in Kandhlah, the Jats, and close behind them the reclaimed Goojur communities have worked with an energy which has left nearly all other classes far behind; and all that can at present be prudently done towards a Permanent Settlement is to fix in permanence the assessments of such fully developed estates and to allow time for their neighbours to reach the same high state of advancement.

2. Excluding the exceptional Pergunnah of Bidoulee, the following number of estates in this Tehseel is eligible for Permanent Settlement, inasmuch as they had at Settlement 80 per cent. of the culturable area under cultivation:—

	Names	of estate	5.		Eligible under the 80 per cent. rule.	Ineligible.	Total.
			•				
Shamlee	•••	•••	***	•••	65	11	76
Thanah Bhow	m	•••	•••		26	85	61
Jhinjhanah	•••	•••	•••	•••	17	47	· 64
Kairanah	•••	•••	•••	•••	26	31	57
			Total	•••	184	124	258

I have already in my Report on Pergunnah Kandhlah described Mr. Colvin's system of assessment, and I need not therefore go into minute details regarding the settlement of these pergunnahs. As far as I have been able to ascertain, the present assessment is, as a rule, just both to Government and the people; and my work has been strictly confined to the selection of those estates which are eligible under both the rules for

Permanent Settlement. The result of my scrutiny is that comparatively few estates have been recommended, but the exclusion of so large a proportion is due almost entirely to the uncertainty regarding canal irrigation, not to any general inadequacy of the assessment. Here and there of course there are under-assessed estates, but in nearly every case in which a low jumma was fixed there were good grounds for consideration. I must refer to my pergunnah note-books for the detailed reasons which guided me in excluding some estates, and in recommending others for Permanent Settlement.

3. In these note-books too will be found the estimates furnished by the Executive Engineer of the Eastern Jumna Canal regarding the probable extension of canal irrigation. These estimates, acknowledged to be rough, have become the less trustworthy, because new principles of distribution have been authoritatively announced since they were framed. Independent of this very important circumstance, moreover, the transferable rights in irrigation which exist on the Eastern Jumna Canal render it more difficult than it otherwise would be for a Canal Officer to assert with any pretence to accuracy what estates are likely to be irrigated. An estate may have been excluded from all probable schemes of extension, and yet if the zemindar manages to buy a few outlets his estate forthwith acquires all the benefits of canal irrigation; and the more the restriction of canal irrigation is enforced the more outlets will be thrown into the market, and the greater chance there will be of new villages receiving canal water.

This extensive sale of outlets has, it is true, been hitherto prevented, because Government has been in the habit of cancelling instead of buying up or forcing the sale of the rights for which the people had formerly paid. It is, however, likely that views fairer to the people, and it may be the action of the Civil Courts, will lead to the introduction of a more just mode of procedure; and if the new principle of distribution be persisted in, we may safely look forward to the introduction of canal water into many estates, the irrigation of which was not contemplated by the Canal Officers. Unfortunately, too, where the lines of rajbuhas have been definitively fixed, it is impossible to place implicit confidence in the estimates which have been made; for in framing them the new principles have been overlooked, and the department seems resolved to repeat the old mistakes, and to flood those tracts which least require irrigation, while the most dry and parched estates are left unhelped. This being the case, the only safe course to follow would be, not to settle permanently any estate, the assets of which can be increased by canal irrigation to a greater extent than 20 per cent. of the assets. I have not adopted this principle in its entirety, but I have thought it necessary to exclude estates which, although not promised canal irrigation, are situated so close to new channels and are in such obvious want of help that it is hardly to be expected that their claims will be overlooked.

- 4. Pergunnah Jhinjhanah.—The Pergunnah of Jhinjhanah is for the most part held by Rajpoots and Goojars, and the cultivation was at Settlement so backward that only 17 estates out of 64 are eligible for Permanent Settlement under the 80 per cent. rule. Into these 17 estates again, situated with two exceptions in the south-east corner of the pergunnah, canal irrigation has been comparatively recently introduced, and, as might have been expected, the Jat villages previously carefully cultivated, at once reached a very high standard of prosperity; while, notwithstanding the great advantages placed within their reach, the Rajpoot and Goojar villages are still somewhat backward. Of the Jat estates, too, one or two still lay behind, and their assessments are still below the standard to which their neighbours have attained.
- 5. Five estates recommended for Permanent Settlement, 12 excluded.—The following statements show those estates which are recommended for Permanent Settlement on

the present terms, and those which are at present ineligible, either owing to the prospect of increased irrigation from the canal or on account of the lowness of the present assessment.

Recommended for Permanent Settlement.

Numbers and names estates.	of	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable	Dry.	Assessment.	Rate her sore on sesons.	able area.			Rate per acre on culti-	
								Ra.	Rs.	A	. P.	Re	. A	P.
1. Oon	•••	2,910	2,517	496	2,021	1,546	475	5,400	2	2	4	2	10	9
2. Poor	•••	996	891	181	760	788	27	2,811	2	12	7 <u>‡</u>	8	1	ı
3. Thanah	•••	1,285	1,023	110	913	801	112	2,812	2	12	0	3	1	81
4. Tapranah Jaton	•••	968	799	118	681	500	181	1,651	2	1	1	2	6	91
5. Doolakheri	•••	877	740	81	659	653	6	1,575	2	2	8	2	6	8
Total	•••	7,036	5,970	936	5,034	4,233	801	13,749	2	4	10	2	11	8

Not recommended for Permanent Settlement.

N:	umbers and names of estates.		Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assesment.	Bate per acre on assess- able area.	Rate per acre on culti- vated area.
				·					Rs.	Rs. A. P.	Re. A. P.
1.	Ambehtah	•••	784	652	47	605	534	71	900	1 6 1	1 7 91
2.	Pelkha	•••	880	648	81	567	462	105	1,854	2 1 5	2 6 21
3.	Tapranah Goojran	•••	474	393	52	841	152	189	641	1 10 1	1 14 1
4.	Tapranah Afghana	n 🖦	1,216	1,067	214	853	591	262	1,250	1 2 9	1 7 51
5.	Durgahpore	•••	971	622	107	515	894	123	1,024	1 10- 4	1 15 10
6.	Rahutpore	•••	494	837	61	276	275	1	450	1 5 4	1 10 1
7.	Isa Mazrah	•••	19	18	•••	18	11	7	20	1 1 9	1 1 9
8.	Kherki	•••	504	427	81	346	312	84	800	1 14 0	2 5 6
9.	Garhi Mian Bhai K	h an,	84	79	9	70	70	***	148	1 14 0	2 1 10
10.	Malhendee	•••	1,654	1,489	253	1,236	1,012	224	3,190	9 1 4	281
11.	Naonagli	•••	660	592	88	504	453	51	1,200	205	2 6 1
12.	Hoshangpore	•••	816	284	29	205	113	92	401	1 11 5	1 15 31
											<u></u>
	Total	•••	8,006	6,558	1,022	5 ,58 6	4,879	1,157	11,288	1 11 6	207

6. Past and Present Settlements.—The present jumms of the whole 27 estates shows a considerable advance over that previously fixed, and a still more decided increase to the assessment may confidently be looked for when the Settlement of this tract shall again be revised. The statistics of the present and former Settlements are as follows:—

Settlement.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Бгу.	Assessment.	Bate per sore of total area.	Rate per acre on assess- able area.	Rate per acre on culti-
Former Settlement,	15,033	13,658	2,736	10,922	•••	•••	Rs. 25,671	Rs. A. P.	Ra. A. P.	;
Present Settlement,	16,954	12,528	1,958					1 10 10		
Difference	+1,921	-1,130	—778				+2,711	 		_

Pergunnah Kairanah - Postponement of Permanent Settlement recommended. - In Kairanah, still more than in Jhinjhanah, the bulk of the land is owned or cultivated by Goojars, and 31 estates out of 57 are ineligible for Permanent Settlement under the 80 per cent. rule. Of the 26 estates which are eligible, all with a few trifling exceptions are owned and cultivated by Goojars; and even were there not the prospect of a very substantial increase to the area irrigated by the canal, I should be merely adopting the views of the Settling Officer in recommending the exclusion of the whole tract from Permanent Settlement; for this is just the tract in which of all others the effect of a sudden enhancement of the Government demand was most to be feared. The Goojar communities, under the encouraging influence of canal irrigation, were beginning to extend and improve their cultivation, and if not entirely to abandon their ancient lawlessness, to become at least more dependent for their support upon agriculture. Notwithstanding, therefore, the large increase to the assets of this tract, Mr. Colvin was very cautious in raising the Government demand, and the result is an assessment which, suitable in most cases for a limited term of years, is not fitted for permanence. Indeed Mr. Colvin distinctly states, and with special reference it would seem to this south-east corner of canal-irrigated estates, that, "Had it not been for fear of too rapid an increase in the demand, I should have increased the jumma considerably more than I have done." The considerations which were amply sufficient to justify a low temporary assessment form no ground for making that low assessment permanent, and I therefore recommend that in this pergunnah Permanent Settlement should be delayed.

In order that the incidence of the present assessment and the possibility of increased canal irrigation may be clearly seen, I give below the usual statement regarding the 26 estates which are eligible under the 80 per cent. rule, but which are not recommended for Permanent Settlement:—

Num	abers and names of estates.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment	Rate per acre on assessable area,	Rate per acre on cultivated
								Rs.	Ra. A. P.	Ra. A. P.
1.	Oonchagaon	1,162	957	60	897	868	34	2,000	. 2 1 51	2 8 8
2.	Erti	722	579	83	546	489	57	1,200	2 1 2	2 3 2
8.	Budhupoora	516	468	51	417	197	220	600	1 4 6	1 7 01
4.	Barala	785	725	58	672	439	233	1,200	1 10 6	1 12 7
5.	Bhorapati Musulmanan.	1,255	1,132	209	923	798	125	1,700	1 8 01	1 18 51
6.	Banehra	520	462	86	376	876		700	1 8 8	1 13 9 <u>1</u>
7.	Panjith	1,271	1,116	212	904	758	151	1,500	1 5 6	1 10 6
8.	Jaganpore	585	475	42	483	286	147	881	1 12 0	1 14 81
9.	Chukaleepore	9	9		9	9		12	1 5 4	1 5 4
10.	Chuk Khandela	12	12		12	7	5	16	1 5 4	1 5 4
11.	Ditto Kheri Kafsha- daz.	15	15	1	14		14	10	0 10 8	0 11 5
12.	Ditto, alias Titar- wara.	17	15		15	4	11	10	0 10 8	0 10 8
18.	Aleepore	587	465	61	404	896	8	1,050	9 4 2	2 9 7
14.	Ghazeepore	542	478	62	416	86	880	650	1 5 9	1 9 0
15.	Kishorepore	456	421	18	403	403		455	1 1 31	1 2 1
16.	Khandela	743	660	55	605	478	182	1,200	1 13 1	1 15 9
17.	Kheri Bucha	1,211	972	99	873	655	218	2,000	2 0 11	2 4 8
18.	Kheri Kafshadaz	512	437	8	429	247	182	780	1 12 7	1 13 5 <u>1</u>
19.	Kairana Taraf Dar- mian.	1,878	1,576	174	1,402	1,092	810	2,017	1 4 6	1 7 0
20.	Ditto Sadhoo	1,841	1,180	119	1,061	945	116	1,691	170	1 9 61
21.	Ditto Kasim	1,759	1,881	145	1,186	1,055	181	1,888	168	1 9 6
22.	Ditto Kanoongoyan	1,215	1,085	109	976	850	126	1,410	1 4 10	171
23.	Ditto Mehal Milk Muz- bitah.	3,490	2,495	252	2,248	1,775	468	3,485	164	181
24.	Gogwan	1,661	1,516	257	1,259	916	848	1,850	186	176
25.	Hengokheri, 61 bis- wahs.	119	117	19	98	53	45	224	1 14 8	2 4 7
26.	Ditto, 13½ biswahs	287	282	40	212	160	82	554	1 15 6	2 4 8
	Total	22,620	18,980	2,165	16,815	13,327	3,488	29,034	1 8 6	1 11 8

^{8.} Past and Present Settlements compared.—Notwithstanding the great care which has been taken not to press hardly on the Goojur Zemindars, there has been a very considerable advance since last Settlement, and there is little doubt that when the assessment is again revised a still greater enhancement will be possible without in the slightest degree distressing the proprietors, who owe their present prosperity in some degree, it is true, to their own partial reformation, but chiefly, there can be no doubt, to the new water-courses constructed at the expense of Government. To facilitate

comparison, the statistics of the present and former Settlement for the 26 estates are given below:—

Settlement,	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assesment.	Rate per acre en total area.		Rate, per acre on			Kate per acre on cultivated area.	
Former Settlement, Present Settlement,			4,163 2,165			 8,488	24,628		R	6 8	P. 4 6	1	18	P. 3 8
Difference	+711	+1,362	-1,998	+3,360		•••	+4,406	+0 2	+	0 2	2	0	1	7

It will be seen that the incidence of the present jumms on the cultivated area is less than that of the old one, and when the increased facilities for irrigation are considered it can hardly be doubted that the present assessment, however suitable for a term of years in a tract held by the least industrious castes, is not fit to be declared permanent.

9. Pergunnahs Shamlee and Thanah Bhown.—The Pergunnahs of Thanah Bhown and Shamlee are both intersected from north to south by the River Kirsanee, which divides both pergunnahs into two very distinct tracts, the larger one to the west fully irrigated by the Eastern Jumna Canal, while the dry tract to the east has hitherto been left almost entirely dependent on wells, the sinking of which is in this tract difficult and expensive.

10. Thanah Bhown—Comparison of Tracts to East and West of Kirsanes.—In Thanah Bhown especially the distinction between the two tracts is very marked, as the subjoined statements, giving the wet and dry areas and the incidence of the assessment, show:—

Numbers of estat	tes.	Total area in acres.	Total assessable area.	Culturable area.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rate per sore on total area,	Rate per acre on assessable area.	Rate per acre on cul- tivated area.
36 estates west Kirsanee River	of 	87,709	25,721	9,032	16,689	14,484	2,205	Rs. 46,270	Rs. As. P.	Rs. As. P.	Rs. As. P.
28 estates east Kirsanee River	of 	19,881	16,000	3,297	12,703	6,487	6,216	22,397	1 2 0	165	1 12 2
Total	•••	57,590	41,721	12,329	29,392	20,971	8,421	68,667	1 8 1	1 10 4	2 5 5

These figures are very remarkable, and, while they show the fertility of the cultivated area to the west of the river, they indicate other symptoms which are not so satisfactory,—the enormous proportion of the so-called culturable waste, and the altogether unusual difference between the incidence of the assessment on the assessable and cultivated areas. The area entered barren must of course be largely added to by the construction of every new canal and the completion of new means of communication; but the enormous proportion of old and new fallow can only be owing to the gradual falling out of cultivation of land which has been injured by over-irrigation.

Indeed the portion west of the Kirsanee appears to be deteriorating rather than improving, and it is entirely owing to the rise in prices and the consequent rise in rents that there was not a serious diminution in the Government demand.

11. Comparison of Past and Present Settlements of Tract to the West of the Kirsanes.—The following statement shows the condition of this tract according to the Settlement Papers of Mr. Thornton and Mr. Colvin:—

Settlement.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rate per acre on assess-	Rate per acre on culti- vated area.	Remarks.
Former Settlement Present Settlement	32,466 82,996	28,275 25,677	7,2 88 9, 008	20,987 16,669	 14,484	 2,235	Ra. 42,522 40,511	Ra. As. P. 1 8 1 1 9 3	R. As. P. 2 0 5 2 6 11	and Jaffrpore mag not included in form mt, have been exclu-
Difference	+530	-2,598	+1,720	-4,818			-2,011	+0 1 2	+0 6 6	Jalalabad ar estates, no Settlement from this

The diminution of the assessable area is considerable, but is in a great measure due to the occupation of arable land by public works; much, however, is no doubt owing to deterioration, and much of the so-called culturable waste is for the present ruined by reh.

12. Seven Estates recommended for Permanent Settlement.—Of the 36 estates in this tract, 9 are eligible for Permanent Settlement, and of these I recommend the exclusion of only two, the Goojur Estate of Paltheri, and the Zemindaree Township of Ahmadpore, the assessment of which is extremely low owing to the depressed state of the village after the mutiny.

The estates recommended for Permanent Settlement are :-

Numbers and names of estates.	Total area in acrea.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assesment.	Rate per acre on assess-	Rate per acre on culti- vated area.
1. Aurangabad 2. Buntah 3. Khanpore 4. Goranah 5. Madilpore 6. Yarpore 7. Yonispore	1,011 623 540 420 644 1,012	842 479 391 290 415 623 94	132 95 69 25 75 69	710 884 322 265 340 554 90	697 384 315 265 340 525 90	18 7 29	Ra, 1,786 1,000 951 728 1,000 1,860 264	Rs. As. P. 2 1 0 2 1 5 2 6 11 2 8 2 2 6 6 2 11 5 2 12 11	Rs. As. P. 2 7 2 2 9 8 2 15 3 2 11 11 2 15 1 3 0 9 2 14 11
Total	4,869	8,184	469	2,665	2,616	49	7,589	2 6 6	2 18 5

13. Those estates of which I recommend the exclusion from Permanent Settlement are:—

Names of	estates.		Total area in acres.	Total assess- able area.	Cultura b l e waste.	Cu lti v ated area.	Irrigable.	Dry.	Assessment.	Rate per acre on assess. able area.	Rate per acre on culti- vated area.
Ahmadpore Paltheri	Total	•••	419 50 469	277 50 327	48	229 50 279	217 50 267	12	Rs. 456 112 568	Rs. As. P. 1 10 4 2 3 10 1 11 10	Rs. As, P. 1 15 10 2 3 10 2 0 7

Although I have recommended seven estates for Permanent Settlement, as in every way eligible under the rules, there is grave reason to doubt whether it would not be better for the people that Permanent Settlement should be delayed. As I have already stated, these estates are rather deteriorating than making progress, and so little do the people desire permanence that the owners of only two out of the seven estates could be persuaded by Mr. Martin to sign the agreements which bound them to pay their present assessments beyond the original limit of thirty years.

14. Tract to the East of the Kirsance.—To the east of the river lies a tract of few natural advantages; the soil is of fair quality, but the sinking of earthen wells is difficult and expensive; the cultivators too are for the most part Rajpoots, whose progress has not been rapid. It might have been thought that this was the tract in which above all others canal water would have been most useful and was most certain to be given, but although the once frequent earthen wells to the west of the river have long since been closed by the canal, and although the neighbourhood to the east was well-supplied with masonry wells, yet the Canal Department has carefully avoided the tract which most required its aid, and has lavished canal water in needless profusion over a fertile country which hardly wanted help. The consequence is that, while reh and awamp are doing much injury beyond the Kirsanee, and while the rajbuha to the east irrigates large tracts fully secured by masonry wells, the dry and arid tract in the middle of the pergunnah has been left without that share of canal irrigation which it so much requires.

The whole tract therefore is, as a rule, in a backward state, and the best and most prosperous townships have been so lightly assessed that only five estates can be recommended for Permanent Settlement, and with reference to these it might be well if the Canal Department were asked to consider once more whether the assets are not likely to be affected by a more enlightened system of distribution from the Eastern Jumna Canal.

15. Five estates recommended for Permanent Settlement.—The estates in this tract eligible under the 80 per cent. rule which are recommended for Permanent Settlement are as follows:—

Numbers and names of estates.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assesment.	Rate per acre on assessable area.	Rate per acre on cultivated area.
1. Pawarkherah 2. Titarsi 3. Thanah Bhown, Pati Chowdhrian 4. Mulanpore 5. Niralsi or Qadirgurh	195 450 514 110 596	119 384 397 94 510	3 15 56 15 69	116 319 841 79 441	77 201 214 55 158	39 118 127 24 288	Rs. 217 600 692 150 753	Rs. As. P. 1 13 2 1 12 9 1 11 11 1 9 61 1 7 71	Rs. As. P. 1 13 11 1 14 1 2 0 6 1 14 41 1 11 4
Total	1,865	1,454	158	1,296	700	596	2,412	1 10 7	1 13 9

16. The assessments of the following 12 estates, on the other hand, are, for the various reasons given in the pergunnah note-books, unsuited for permanence:—

N	umbers and names c	ef.	Total area in acres.	Total aggestable ayes.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.		Rate per acre on			Rate per acre on cultivated area.	
1. 3. 4. 5. 6. 7. 8. 9. 10, 11,	Ismailpore Bagb Bangla Bhundurah Bhaisanee Islampore Khecaree Islalabad Chandenamaul Umarpore Ferozpore Esapore Loharee Niralaah Ladomarrah	410 401 900 900 900 114 400 900	221 46 958 2,541 655 255 1,200 1-30 540 929 703 648	193 42 42 2,291 589 223 889 832 470 816 649 522	17 3 130 58 68 19 117 142 55 111 41	175 40 735 1,899 521 904 778 690 415 705 601	30 321 1,415 245 77 144 369 260 407 425 209	155 8 414 484 976 197 606 328 185 200 176	Re. 306 79 700 2,569 727 313 1,150 1,116 779 1,660 111 860	Re. 1 1 0 1 1 1 1 2 1 1 1	15 4 5 10 8	P. 9 11 11 9 8 81 51 6 6 4 4		3 15 15 6 0 7 9 14 5	P. 10 7 8 8 4 8 10 10 10 6 8 0 7
	Total	**.	9,638	8,873	1,180	7,193	8,940	3,253	11,086	1	5	1	1	8	6

17. Estates in Pergunnah classified.—The result is that in the whole Pergunnah of Thannah Bhown, of 26 estates eligible for Permanent Settlement under the 80 per cent. rule, 12 are recommended for Permanent Settlement, while 14 have been excluded. The areas, assessment, and the incidence of the Government demand on the three classes thus formed, are are shown below:—

Numbers of estates.	Total area in acrea.	Total assessable area.		l					Hate per acre on total			Rate per acre on			oultirated area.	
							Bs.	Re.	Ås.	P,	Ra	Δs.	P.	Re.	Δs	. P.
12 Betates recom- mended for Perma- nent Settlement.	6,284	4,588	627	3,961	8,316	645	9,951	1	9	6	9	2	8	3		2
14 Estates eligible under the 80 per cent, rule but not recommended.	10,102	8,700	1,998	7,472	4,907	3,265	11,604	1 	2	5	1	5	4		•	10
35 Retates entirely ineligible.	32,797	26, 238	9,901	16,337	12,302	4,135	35,949	1	1	6	1	5	11	*	8	2
Total, exclusive of masses.	49,188	39,526	11,756	27,770	19,725	8,045	57,594	1	8	9	1	7	8	3	1	3

Pergunnah Shamlee—Comparison of Tracts to East and West of Kirsanee.—The Pergunnah of Shamlee is in most respects similar to Thannah Bhown, which it adjoins on the south; Shamlee, however, is superior, and both quality of soil and style of cultivation steadily improve as the southern boundary is approached. Shamlee like Thanah Bhown is intersected by the River Kirsanee, and there are the same general features which characterize the two tracts—over-irrigation and gradual deterioration to the west of the river in the neighbourhood of the Eastern Jumna Canal, and a want of irrigation to the east of the river, especially in the northern portion of the tract. To the south, however, earthen wells are practicable; and the land being held for the most part by powerful Jat brotherhoods, the tract is one of the most fertile in the district, and pays a high revenue. The Kalarpoor Branch of the Eastern Jumna Canal irrigates a few estates on the eastern boundary.

The areas, assessment and incidence of the Government demand in these two tracts are shown below:—

Numbers of estates.	Total area in arces.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rateper acre on total area:	Rato per acre on assessable area.	Rate per acre m cultivated area.
							Rs.	Rs. As. P.	Rs. As. P.	Rs. As. P.
48 Estates west of Kirsanee River.	87,876	29,372	4,559	24,813	19,871	5,442	64,725	1 11 8	2 8 8	2 9 9
38 Estates east of the river.	27,891	23,282	2,640	2 0,642	11,852	8,790	55,332	2 0 4	260	2 10 11
Total	64,767	52,654	7,199	45,455	31,228	14,232	1,20,057	1 13 8	2 4 6	2 10 8

19. The incidence of assessments in the two tracts.—We have thus the extraordinary phenomenon of a fertile plain, almost entirely irrigated from the canal, paying a lower revenue per acre than the adjoining tract inferior in natural capabilities and not superior in the castes of cultivators by whom the land is tilled, and with quite two-fifths of the area dry. Nor is the assessment of the canal-irrigated tract low; but over-irrigation has done its deadly work. The land is slowly but steadily deteriorating, and malaria has enfeebled the population. Indeed there can be little question that if half of the canal water which has been poured over this tract had been reserved for some other neighbourhood in which masonry wells were less numerous and earthen wells were less easily dug, the Government demand might have been as high in the Jat villages watered by the Canal as it is in the Kodanah Circle, east of the Kirsanee in which "reh" is unknown, and in which cultivation is carried on with an energy for which it is useless to look in a fever-stricken peasantry.

20. Comparison of Past and Present Settlements.—Both tracts were very highly cultivated at last Settlement, and in neither has there been any great advance.

Estates and Settlement.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Assessment.	Rate per acre on total area.	Bate per acre on assess- able area.	Bate per acre on cultiareted area.
43 estates Former Settlement, west of Kir- sance. 33 estates Former Settlement, east of Kir- Present Settlement,	37,963 87,876 -587 27,870 27,391	-246 22,972	4,559 +1,081 2,567	24,813 -1,227 20,405	63,111 64,725 +1,614 57,226 55,332	1 10 7 1 11 8 +0 1 1 2 0 10	2 2 1 2 3 3 +0 1 2	+0 3 1 2 12 10

21. Effects of over-irrigation considered.—In the canal-irrigated tract, therefore, the cultivated area is decreasing owing to the steady inroads of swamp and reh; and as irrigation is now so general, little improvement can be looked for in the great majority of estates from a larger supply of canal water. Indeed in many cases we must look for improvement to a systematic lessening of the canal-irrigated area, and to the benefit which is likely to follow from a return of the people to the use of wells. It would, I am convinced, be difficult to overestimate the advantage which has been derived by many estates in this neighbourhood from a judicious supply of canal water, but it would be also difficult to overstate the injury which has been caused to the immediate neighbourhood of the canal by the short-sighted policy of deluging low-lying tracts with the sole object of collecting high water-rates over a limited area, and

without paying the slightest attention to the wants of more distant lands, to the health of the people, or to the indirect revenue which a more enlightened system of distribution would secure to Government. Notwithstanding, however, these defects, the revenue rates are high, the land is nearly all irrigable, and although fields are year by year dropping out of cultivation, those as yet unaffected are carefully cultivated and bear the best kinds of crops.

22. Twelve Estates recommended for Permanent Settlement.—In this tract, as might be expected, only the outlying estates can look for much more irrigation from the Canal; and of the 32 estates eligible under the 80 per cent. rule for Permanent Settlement, comparatively few are excluded on account of prospective increase of irrigation. Most of them are either Goojar villages which have not yet reached the high standard of cultivation which characterizes the best Goojar townships in the south of Shamlee and in Kandhlah, or are Jat estates which have, for one reason or other, been assessed at lower rates than their neighbours. In this way, out of 32 estates in the canal-irrigated tract eligible under the 80 per cent. rule, only 12 have been found to be in every way suited for Permanent Settlement. These are—

Numbers and names of estates.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Bate per acre on assess- able ares.	Rate per acre on cultivated
1. Bulwah, Pati Musalmanan, 2. Bulwah, Pati Hinduan 3. Banat, Pati Hamsanalee 4. Banat, Pati Mohar Singh, 5. Tajpur Simbhalka 6. Jhal, Pati Guthwala 7. Dhanayana 8. Salawur 9. Shamlee, Pati Bhugwan Singh 10. Karori 11. Gurheni 12. Mihrampur	693 618 696 283 532 486 1,830 884 675 1,728 347	577 451 940 948 556 416 847 1,430 586 532 1,817 285	57 8 36 29 53 40 9 122 80 35 245 33	520 443 204 219 503 376 338 1,808 506 497 1,072 252	520 296 191 190 445 308 338 1,252 487 420 1,006 209	 147 13 29 58 68 56 69 77 65 43	Rs. 1,448 1,600 600 660 1,800 1,200 1,000 4,000 1,607 1,300 3,200 736	Ra, As. P. 2 8 0 3 8 9 2 8 0 2 10 7 3 3 9 2 14 2 2 14 1 2 12 9 2 11 10 2 7 1 2 6 10 2 9 4	2 12 5 8 9 9 2 15 0 2 0 3 3 9 3 8 3 1 2 15 4 8 0 11 8 2 10 2 9 11 2 15 9 2 14 9

23. Twenty-one excluded.—Throughout this tract there appears to be an entire absence of any eagerness for Permanent Settlement. The late high prices may have influenced the people's views, but certainly before the drought no one expressed the slightest anxiety for permanence, and the majority objected most strongly to a Per-

Note.—For only 4 out of the 12 estates could the zemindars be induced to sign a Permanent Settlement Durkhast, manent Settlement which would preclude any future re-adjustment of the Government demand. Even to the most industrious Jat landlords, the chance of deterioration

appears to more than outweigh the prospect of improvement, and there can be little wonder that, considering the uncertainty which still exists regarding the distribution of canal water, and the increase of reh, landlords paying a high revenue should see as much cause for fear as for hope in a Settlement which is never to be revised. The owners, therefore, of the following estates, which I propose to exclude from Permanent

Settlement, will suffer no great disappointment from the course which has been adopted regarding them:—

N	imbers and names of estates.	Total area in acrea.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Dotto and other	assessable area.			cultivated area.	
								Rs.	Rs.	Ав.	<u> </u>	Rs.	Ās	. P.
1.	Badheo	348	804	51	253	215	38	750	2	7	6		15	5
2.	Barlajat	868	544	45	499	252	247	1,100	2	0	4	2	3	8
8.	Bamnaoli	411	883	61	822	178	144	752	1	15	5	2	5	4
4.	Bhainswal	8,529	2,941	564	2,877	2,263	114	7,060	2	6	5	2	15	6
5.	Titaoli	1,559	1,855	150	1,205	990	215	2,900	2	2	8	2	6	6
, 6.	Jandheri	971	540	102	488	231	207	700	1	4	9	1	9	7
7.	Sikundrah	826	683	71	612	463	149	1,154	1	11	0	1	14	2
8.	Sentah, Pati Raj			1 1			1		l					
	rap	80	50	2	48	23	25	96	1	14	9	2	0	0
9.				1		ľ						l		
	Jawahir Singh	822	675	109	566	856	210	1,590	2	5	8	2	12	11
10.				1										
	Ghasi Ram	834	620	44	576	472	104	1,558	2		2	2	11	8
11.	Shamashpur	227	162	14	148	105	43	800	1	13	7	2	0	5
12.	Shekhopurah	441	854	8	351	219	132	851	2	6	5	2	6	9
13.	Kaserwa Khurd,	709	620	10	610	360	250	1,500	2		0	2	7	4
14.	Kaserwa Kalan	981	728	7	716	662	54	2,018	2		6	2	13	0
15.	Kunnu Kherah	1,290	1,089	120	969	899	70	2,394	2	8	3	2	7	6
16.	Kheri Kurmu	1,771	1,361	211	1,150	883	267	3,097	2	4	5	2	11	1
17.	Garhshaestpur	181	169	10	159	146	18	200	2	2 1	1	1	4	1
18.	Ghogarpur	269	237	28	214	199	15	473	1	15 1	l	9	3	4
19.	Laloen	1,669	1,522	207	1,815	1,062	253	8,475	2	4	6	2	10	3
20.	Mundeth	966	674	75	599	519	80	1,600	2	6	0	3	10	9
21.	Mahabatpur	880	816	41	275	226	49	696	2	8	8	2	8	6
	Total	19,072	15,322	1,920	13,402	10,728	2,679	34,259	2	8	<u>-</u>	2	8	11

24. Condition of the Iract to the East of Kirsanee, and reasons which prevent the Permanent Settlement of the majority of Estates.—Of the 33 estates lying to the east of the river, 32 are eligible for Permanent Settlement under the 80 per cent. rule, and of these estates the assessment is so full and fair that had there been no disturbing cause nearly all of them might have been settled permanently. Many of the finest of these estates were settled by Sir Henry Elliot at a time when far more than the two-thirds of Mr. Thornton's Settlement were appropriated to the State. In some of these estates a considerable reduction was therefore necessary, and this accounts for the lowering of the Government demand. Even now, however, the assessment is in nearly every case sufficiently full, and with a few exceptions, the whole tract might have been permanently settled, were it not that a new rajbuha running through this portion of the pergunnah from north to south is about to be opened. As twofifths of the whole area were entered dry at Settlement, the introduction of canal irrigation will have a marked effect, and it may be confidently expected that a supply of water for one-third of the cultivated area will bring this portion of the Shamlee Pergunnah up to the high level of the adjoining tract in Shikarpore, the most highly assessed and one of the most fertile portions of the district. Unfortunately, however, it would seem to be the intention of the Irrigation Department to commit the same errors in the distribution from the new rajbuha which have been productive of so much injury in the western portion of the pergunnah. It is proposed to deluge with canal water fully irrigated estates, while here as elsewhere many dry estates at no great distance from the line of the rajbuha are to be left unaided. I have not, however, felt myself bound to be entirely guided by the confessedly uncertain information received from the Irrigation Department, but have taken for granted that Canal Officers will, in future, adhere to some extent to those common-sense principles of distribution which have recently been so authoritatively laid down.

25. Six Estates recommended for Permanent Settlement.—Owing to the extension of the Yarpore Rajbuha, only six of the 30 otherwise eligible estates can be recommended for Permanent Settlement; and regarding the first, fourth and fifth it might be

well if the Canal Department were again to consider whether there is any prospect of canal irrigation being extended to them. The six estates are—

	mbers and es of estates.	Total area in acres.	Toal assess.	Cultur able waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rateperacre on assess- able area.		rateperacre	명		Remarks.
1. 2. 3. 4. 5.	Bootrari Bhaju Chaonsah, Kabraot Karaodah, Kodanah	645 2,271 461 754 812 2,372	500 2,070 402 532 749 1,494	61 104 24 71 89 124	439 1,966 378 461 660 1,370	802 1,469 320 245 396 805	137 497 58 216 264 565	Rs. 1,000 6,336 1,268 1,100 2,000 4,263	Ra, As, P. 2 0 0 3 0 11 3 1 3 2 1 1 2 10 9 2 13 8		8	A.s. 4 3 5 6 0	5 7 8 2 6	On the Kirsanee. On the Kirsanee. On the Kirsanee.
	Total	7,315	5,747	473	5,274	3,537	1,737	15,967	2 12 5	-	3	0	5	

The malgoozaree and cultivated rates are thus very high, nearly as high as those of the finest canal-irrigated estates, and practically much heavier; for three out of the six estates are situated on the banks of the Kirsanee, and in them much of the dry land is on the slope.

26. Twenty-six estates excluded.—Of the 26 estates, the exclusion of which from Permanent Settlement is recommended, the great majority have a very considerable dry area, the irrigation of which will largely increase the assets of such estates. In a few cases the assessment is unsuited for permanence on account of its lowness; but, as a rule, Permanent Settlement must be delayed owing to the prospect of extensive irrigation from the Yarpore Extension Rajbuha now in course of construction, and from which the irrigation of over 7,000 acres in this tract is promised.

	pers and names of estates.	Total area in acres.	Total assess- able area.	Cultur a ble waste.	Cultivate d area.	Irrigable.	Dry.	Assessment.	Rate per acre	on seeces-	able attes.	.	on cuiti-	
		- (Rs.	Rs.	A	. P.	Rs.	Αs,	P.
1.	Adampore	740	641	82	609	225	384	1,795		12	10		15	2
2.	Babri	2,800	2,469	479	1,990	670	1,320	4,500		13	2	2	4	2
3.	Bantikhera, Fati Ja-	786	628	42	586	154	432	1,206	1	14	9	2	0 1	11
4.	tan. Bantikher a.	1,106	948	54	894	211	683	1.600	١,	11	ا م	1	12	8
4.	Pati Ran-	1,100		•	034		"	1,000	`	••		•	•-	
5.	Banherah	896	753	114	639	454	185	2,027		11	1	8		9
6.	Bootrar a h,	804	130	84	646	420	226	1,450	1	15	10	2	8	11
	Pati Af-						1 1	•	1					
	ghanan.						1		l.		_			_
7.	Bootrar a h, Pati Ja- tan.	500	408	. 23	385	279	106	1,100	2	11	2	2	13	8
8.	Bhaori	1,562	1.364	235	1,129	555	574	3,288	9	6	7	2	14	1
9.	Beeka Mazra,	506	454	49	405	246	159	1,272		12		3	2	8
10.	Beeki Deh	848	253	5	248	111	137	500		15	7	2	0	3
11.	Beeki Koda• nah.	808	2 61	12	249	207	42.	638	8	7	1	2	9	0
12.	Jamal po r e Nagli.	475	808	16	292	92	200	666	8	_	7	2	4	6
13.	Chuk Khan- pore.	. 42	41	2	39	19	27	100	2		0	2	9	0
14.	Chuk Qasim- pore.	115	118	15	98	18	85	161	'		_	1	10	3
15.	Khanpore	720	661	26	635	466	169	1,550	5	-		2	7	1
16.	Sontah	1,883	1,221	233	988	875	113	3,157		9		3	.8	1
17.	Qasimpore	324	279 449	33	275 416	201 282	74	788	3	19		2	13 12	8 10
18.	Karijarheri, Koormali	496	630	116	514	351	134	1,158		28	_	8		11
19.	Kheri Bair-	697 267	219	30	189	144	163 45	1,604 480		1 15		2		5
20.	agi.	201	213	1	103		-20	100	1 1		•	-	-	•
21.	Kheri Pati,	414	878	42	836	174	162	900	1 ,	2 6	1	1 2	10	10
22.		2,572	2,104	809	1,795	720	1,075	8,400		i		lī		4
23.		394	334	64	270	155	115	600		1 12		9	3	6
24.	·	8,846	8,032	272	2,760	1,647	1.118	7,322		2 6	8	2	10	5
25.			123	10	113	51	62	145		1 2	10	1	4	6
26.			136	1	185	53	82	220		1 8	10	1	10	1
	Total	21,829	18,937	2,302	16,635	8,768	7,867	41,577		2 :	8 2	2	8	0

27. Classification of Estates in Shamles Pergunnah.—In the Pergunnah of Shamles, then, out of 65 estates eligible for Permanent Settlement under the 80 per cent. rule, the assessments of 18 are in every way suited for permanence, leaving 47 eligible under the 80 per cent. rule, but not recommended, and 11 entirely ineligible.

The areas and assessments of, and the incidence of the Government demand on these three classes of estates are as follows:—

N

18 estates re- commended for Permanent Set- tlement.	16,730	17,788	1,220	11,519	9,149	2,368	35,113	3	1	7	:	12	2	3	0	lo
47 estates eli- gible under the 80 per cent. rule, but not recom- mended.	40,901	34,259	4,999	80,087	19,491	10,546	75,886	1	18	8	9	3	5	2	8	5
I lestates en- tirely ineligible.	7,136	6,668	1,757	3,906	2,583	1,898	9,108	1	•	5	1	•	9	9	5	4
Total	44,767	52,654	7,199	45,455	81,928	14,282	1,20,057	1	18	8	2	4	6	2	10	8

28. Thirty-five Estates recommended for Permanent Settlement in Shamlee Tehseel.—
In the whole Tehseel there have been recommended for Permanent Settlement 35 estates,—5 in Jhinjhanah, 12 in Thanah Bhown, and 18 in Shamlee, making a total of 35 estates, with the following total area and assessment:—

Numbers of entates.	Total area uj scres.	Total assessable area.	Culturable waste,								D-4	name pur mure on countymen	
										P.	Rs.	Δı	. P.
5 estates in Jhin- jhanah.	7,036	5,970	986	5,084	4,238	801	18,749	2	4	10	2	11	8
12 estates in Tha- nah Bhown.	6,234	4,588	627	8,961	8,316	645	9,951	2	8	8	2	8	2
18 estates in Shamlee.	16,780	19,782	1,220	11,512	9,149	2,363	35,113	2	12	2	3	0	10
Total, 35 estates	80,000	28,290	2,768	20,507	10,094	8,509	59,813	2	8	5	9	13	:1

APPENDIX No. 1 A.

List of Estates in Pergunnah Shamles.

					· ·
Sixty-five estates with 80 per cent. of the assessable area under cultivation and ell-gible for Permanent Settlement.	Eighteen estates re- commended for Per- manent Settlement,	1. 2. 3. 6. 6. 7.	Balwa, Pati Musalmanan. Balwa, Pati Hinduan. Itanat, Pati Ramzan Ali. Hannt, Pati Mohar Singh. Bootraree Pati. Bbaju. Tajpur Simbhalka. Jhai Pati, Guthwala. Chaonsa.	10. 11. 12. 13. 14. 15. 16. 17. 18.	Dhanaina. Salawar. Shamlee, Patl Bhagwan Singh. Kabraout. Karouda. Karori. Kooudana. Goorahnee. Mihrampur.
	Forty-seven setates, the exclusion of which from Permanent Settlement is recommended.	1. 8. 4. 6. 6. 7. 8. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 21. 24.	Adampur. Babri. Babri. Babri. Badheo. Barlejat. Bamnaouli, Buntikhera, Pati Jatan. Buntikhera, Pati Rangaron. Banehra. Bootrara, Pati Afghanan. Bootrara, Pati Jatan. Bhaori. Bhainswal. Beaki Mosrah. Beeki Deh. Beeki Koodana. Titaoli. Jamalpur Nugii. Jandheri. Chak Kasimpur. Chak Kasimpur. Khanpur. Sikandra. Sooutah. Sentah, Pati Rajrup.	31, 32, 38, 34, 35,	Gouhurpore. Ghogarpur. Lank. Lalcen. Mahdudpur, Pati Afghanan.
Eleven estates with leathan 80 per cent. of the assessable area under cultivation and ineligible for Permanent Settlement.		1. 2. 6. 6.	Banet, Pati Sawai Singh. Banet, Pati Seelaput. Jalalpur. Jhal, Pati Keerut. Khanpur Talba Masra. Sika.	7. 10. 11.	Sentoh, Pati Gomani. Shamli, Pati Mahaldar.

APPENDIX No. 1 B.

List of Estates in Pergunnah Thanah Bhown.

Tewenty-six estates with Bo with BO per cent. of the assessable area under cultivation and eligible for Permanent Bettlement.	mended for Ferms- nent Settlement.	1. E. 8. 4. 5.	Aorangabad. Buutah. Pawarkherah. Titarsi. Thanah Bhown, Pati Choudha- rain. Kanpore.	7. 8. 9. 10. 11. 12.	Goorana, Madilpore, Mullanpore, Miculsi or Qadirgeth, Yarpore, Yonispore,
	Fourte clusion Fettlement is recommended.	1, 2. 3. 4. 5. 6. 7.	Ahmadpore, Ismailpore, Bugh Bangla, Bhandurah, Bhainsani, Islampore, Baltheree, Kheaoree.	8. 9. 10. 11. 12. 13.	Loharee. Julalabad.

APPENDIX No. 1 B.—(Concluded.)

List of Estates in Pergunnah Thanah Bhown .- (Concluded.)

Thirty-five estates with less than 80 per cent. of the assessable area under cultivation and ineligible for Permanent Settlement.	1. Ahatah Ghousgurh. 2. Ambehta Yakubpore. 3. Banehra Ooda. 4. Thanah Bhown, Pati Masawee. 5. Thanah Bhown, Pati Nougawan. 6. Thana Bhown, Mahal Musbuta. 7. Thanah Bhown, Mehal Baghian. 8. Tarwa. 9. Janeepore. 10. Jasana. 11. Jamalpore. 12. Dabheree. 13. Dookheree, Jamalpore. 14. Soouta, Rassulpore. 15. Sonjru, Omarpore. 16. Abdullapore, Namdarpore. 17. Osmanpore, overf Shekhupore.	18. Aleepoora. 19. Kadurpore. 20. Kazeepore. 21. Kasbah Thanah Bhown, Pati Kalroo. 22. Khera Gadaee. 23. Kailsheekarpore. 24. Garhee Abdulla Khan, Pati Pachdu. 25. Ditto, Pati Soyan. 26. Ditto, Pati Shashum. 27. Ditto, Pati Shashum. 28. Gogwan. 29. Manatmuntee. 30. Nagal. 31. Nojal Noujhlee. 32. Haranwara. 33. Harhar, Fatehpore. 34.: Hind. 35. Chuk Kootabpore.
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APPENDIX No. 1 C.

List of Estates in Pergunnah Jhinjhanah eligible under the 80 per cent. rule for Permanent Settlement.

Seventeen estates with 80 per cent. of the assessable area under cultivation and eligible for Permanent Bettlement.	Five estates recommended for Permannent Settlement.	 Oon. Poor. Thanah. 	4. Tapranah Jatan. 5. Doolakheree.
	Twelve-estates, the ex- clusion of which from Permanent Settlement is recommended.	 Ambehta. Peikha. Tapranah, Goojran. Tapranah, Afghanan. Durgapore. Rahutpere. 	7. Ksamusra. 8. Khairkee. 9. Garhee Main, Bhaee Khan. 10. Malenhdee. 11. Naunaglee. 12. Hoshanpore.

Rent-rates in Pergunnah Shamlee per Kutcha Beegah = one-sixth of an Acre.

.19	Name of Village.	Bont-rat fines	Rentrates per kutcha beegab Aved at Settlement.	oha beegah ment.	Ront-raise	fixed by pri	Bent-rates Axed by private agreement at and since Settlement.	ent at and	Rest.	Rent-rates Ared in Court.		Remarks regarding rent-rates fixed by private agree-
Janu		Wet.	Dry.	Bhoor.	All round.	Wet	Dry.	Bhoor.	Wet.	Dry.	Bhoor.	
	ESTATES WRST OF THE KIRSANES.										<u></u>	
-	Badhao		:	-	•	•		;				acros C. accide
99	Pati Mnsalmenan	_		· •	:		•	: :	: :	 : :	. ;	
		: :	::	:	:	9	0 10 0	: :	:	:	:	. 19
•	Barlajat	:	:	:	:	00	00	0 7 0	;	-	:	. 810
1	:	:	ŧ	:	:	0		:	:	i	:	. 252
•	ati,	:	:	:	:	0 12 0	:	:	:	:	:	. 79
2	Ditto , Mohar Singh	:	:	:	:		0 8 0	:	-	:	:	44
∞	=	:	:	:	:	•	:	:	:	:	:	No money rente.
a		:	:	:	:	:		:	:	:	:	Ditto.
2	Bhainswal	:	:	:	:	1 4 6	0 12 0	:	-	:	:	435 acres.
=	Simbholkah		:	:	:	:	:	:	:	ŧ	:	No money rents.
8	Trtooli	:	:	:	:	:	:	:	:	:	:	Ditto.
8	Jalalpur	:	:	:	:	:	:	1	:	:	:	Ditto.
*:	:	i	:	:	:	:	:	ŧ	:	:	:	Ditto.
12	ati, Ghatwala	i	:	:	:	:	:	:	:	:	:	Ditto.
9 1	Kiral	:	:	:	:	:	:	:	:	:	:	Ditto.
7.	eda	:	:	:	:	: ;	:	:	:	:	:	Ditto.
9 5	:	:	:	:	:	0 0 0 0		ŧ	:	:	:	MEG BOTOS.
3 6	Colombia	: :	į	: :	i	9	>	:	:	:	:	No monte
3 5	Pati. Raimo	: :	1:	: :	: :	: :	: :	: :	: :	: :	::	No money remes.
64	han	:	:	:	:	:		:		:	:	Ditto
64	Ditto , Gumani	:	:	:	:	:	:	:	:	:	:	
ā	e Pati	:	:	:	:	0 0	0 8 0	:	:	:		217 acres.
20	2	:	:	:	•	1 20	0 10	:	:	:	:	277 ,,
98	2	:	:	•	:	1000	0 01 0	:	:	:	:	184
2	Ditto ,, Mahaldar	:	:	i	:	ŧ	:	:	:	:	i	No money rents.
90 90 90	purah	:	:	:	:	0 71 0	0 0 0	:	:	:	:	211 sores.
2	Karori	:	:	:	:	:	:	:	:	:	:	No money rents.
8	Kaserwah Khurd	:	:	ŀ	:	0 14 0	8	:	:	:	:	148 acres.
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Rent-rates in Pergunnah Thanah Bhoson per Kutcha Beegah =one-sixth of an Acre.

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Rent-rates per Kutcha Beegah (=one-sixth of an Acre) in the Estates of Pergunnah Ihinjhanah eligible under the 80 per cent. rule for Permanent Sottlement.

	Name of Tillage.	ģ		Rent-rafer Aved	Bont-rales per kutcha beegak Jased at Settlement.	ta beegah tent.	Rentra	Ront-rates fixed by private agreement at and since Settlement.	y private ag 3 Settlemen	rooment t.	Rent-ra	Bent-rales Axed in Court.	Court.	Remarks regarding rentrates fixed by private
red and M				Wet.	Dry.	Bhoor.	All round.	Wet.	Dry.	Bhoor.	Wet.	Dry.	Bhoor.	agreement and in Court.
Oon	:	I	:	:	:	:	:	:	i	i	:	:	:	No money rents.
2 Ambehtah	i	i	i	:	:	:	, :	:	:	:	:	:	:	Ditto.
8 Par	I	:	:	:	:	:	i	:	:	:	:	:	i	Ditto.
Pelkah	i	:	i	:	:	i	:	i	:	:	÷	:	i	Ditto.
5 Thanah	ï	i	:	:	*	:	:	:	:	:	i	:	:	Ditto.
Tapranah Pati, Jatan,	ti, Jatan,	:	:	:	:	:	:	•	:	:	:	:	:	Ditto.
Tapranah Pati, Gujaran	ti, Gujaran	:	ì	:	:	:	:	:	:	·:	:	:	:	Ditto.
Tapranah Pati, Afghanan	ti, Afghanan	i	:	:	:	:	:	:	i 	:	:	i	:	Ditto.
Dargahpur	:	:	i	:	:	:	:	:	:	:	:	i	:	Ditto.
Dulal Kheri	:	:	:	:	:	i	:	:	:	:	:	i	:	Ditto.
Rabutpur	:	:	:	:	i	:	:	•	:	:	i	:	:	86 acres.
Isa Mazrah	:	i	i	:	E	i		:	:	:	:	:	:	No money rents.
Kherki	:	i	:	i	:	:	:	:	:	:	:	:	:	Ditto.
Garnir Mian, Bhai Khan	Bhai Khan	:	i	ì	:	:	•:	:	:	:	:	:	:	Ditto.
Malbendi	:	:	:	:	:	:	:	0 14 0	0 8 0	:	:	:	:	142 acres.
Naonagli	:	ï	:	:		:	:	0 11 0	0	:	:	i	:	170 "
Hosbangpur	Hoshangpur (uninhabited)	:	÷	:	:	:	:	0 10 0	0 7 0	:	:	:	:	106 :

Rent-rates in the Estates of Pergunnah Kairanah sligible under the 80 per cent. rule for Permanent Settlement per Kutcha Beegahtenent of an Aore.

	Name of village.	Ront-rate fixed	Roni-rates per kulcha beagah flaed at Settlement.	ha deagah Hené.	Bont-rafes	Assed by pri	-rales Ased by private agreement at and since Bettlement.	m at and	Rent	Bent-rates Ased in Court.	ė, is	Remarks regarding rent-rates fixed by private agreement and in Court.
dank		Wet.	Dry.	Bhoor.	All roand.	Wet.	Dry.	Bhoor.	Wet.	Dry.	Bhoer.	
 					Re. As. P.	Rs. As. P.	Rs. As. P.					
_	Onehearton	:	;	:	:	9	:	:	:	:	:	204 acres.
_		:	:	: 1	:	0 11 6	:	:	:	:	:	001
. 60	hopar	:	:	::	:	6	•	i	:	i	:	. 90
_	Barala	:	:	:	:	0 10 8	9	:	:	:	:	098
20	Bhura Pati, Musalmanan	:	:	:	0 9 0	:	i	:	:	:	:	126
_	Binra	:	:	:	:	0 18 0	:	:	:	:	:	
_	Panjit	:	:	:	0 20	:	i	:	:	:	:	270 3,
_	Jaganpur	:	i	:		:	:	:	:	:	:	190 ,
_	Chak Alipur Maruf, Titarwarah	:	:	:	:	:	:	:	:	:	:	No money rents.
_	Chak Khandela	:	:	:	0 2	:	:	:	:	:	:	screw.
_	Chak Kheri Kafshados Maruf, Kaira-	:	:	:	:	:	:	:	:	:	:	No money rents.
	nah. Chak Kheri Kafshados Maruf, Titarwa-	:	:	:	:	:	:	:	:	:	:	Ditto.
_	rah											
	Alipur	:	:	:	:	0 16 0	:	į	:	:	:	52 acres.
_	Ghazipur	:	:	:	:	:	:	:	:	:	:	No money rents.
	Kishorpur	•	:	:	:	:	:	:	:	i	:	Ditto.
	Khandela	:	:	:	0 7 7	i	:	:	:	:	:	450 acres.
	Kheri Bucha	:	:	:	:	0 10 0	0 9 0	:	;	:	:	228 ,,
-		:	:	:	i	0 0	ю	:	:	:	:	150 ,,
9	Kairanah Taraf, Darmiyan	:	:	:	9	:	i	:	:	:	:	1,003 acres. Wet rates for annas 14.8, excluding
	Weinensh Hones Sadhn	;		-	α α							garden land.
		:	:	:	•		•	:	:	:	:	
	Kairanah Taraf, Casim	:	:	:	:	3:	9 1	:	:	:	:	552 acres. Weirates for Ke. L.
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As nearly all the money rents in this pergunnah are paid by preprietors, little trust can be placed in them.

PERGUNNAHS CHARTHAWAL AND BAGRA, OF THE HUZOOR TEHSEEL.

Boundaries and general features of the two pergunnahs.—The Pergunnahs of Charthawal and Bagra, of the Huzoor Tehseel, are, for the present, cut off from the irrigation system of the Ganges Canal by the River Kalee, which, with a few villages of the Moozuffernuggur Pergunnah, forms the boundary on the east. On the north Charthawal, the northern pergunnah, adjoins Pergunnahs Katha and Deobund of Saharunpore; and Bagra on the south, is bounded by Shikarpore. To the west of the tract lie Pergunnahs Thanah Bhown and Shamlee.

The Hindun River runs through the tract from north to south, and cuts off from each pergunnah a portion of about one-third of the whole area. This portion, lying to the west of the Hindun, is irrigated by the Kalarpore Branch of the Eastern Jumna Canal, and some of the estates are little if at all behind those of the splendid circle immediately to the south in Shikarpore between the Hindun and the Kalee. On the other hand, there is as yet no Canal, and wells are comparatively few; so that although the villages to the south and east of Bagra are not much behind the adjoining portion of Shikarpore, the increasing dryness towards the north renders the tract on the whole very decidedly inferior to the southern pergunnah. The soil is on the whole good—as a rule, indeed, it is excellent; and the opening of the Deobund Branch will cause a change in the condition of this tract only slightly less remarkable than that which has taken place on the other side of the Kalee River.

- 2. Circumstances of assessment.—The two pergunnahs were at Settlement assessed by different officers,—Charthawal by Mr. Colvin and Bagra by Mr. Martin; and for this reason it will be better to consider the circumstances of each pergunnah by itself.
- 3. The Cis-Hindun portion of Pergunnah Bagra.—The portion of Bagra lying to the east of the Kalee River contains 56 estates, the area and assessment of which at the Settlements of Mr. Thornton and Mr. Martin are given below:—

Settlement.	Total area in acres.	Total assessable area.	Culturable waset.	Cultivated area.	Irrigated.	Dry	Assessment.	Retenes age of total	Area per acre or soran			Este per sere or			tivated area.	
								Rs.	A.	P.	Rs	A.	P.	Rs.	A.	P.
Former Settlement			6,887	27,330			63,195	1		10	1 -	14	0	2	_	0
Present Settlement	41,108	86,497	5,857	31,140	11,332	19,808	58,451	<u> </u>	6	9	<u>'</u> .	9			14	0
Difference	+ 459	+*2,780	- 1,030	+3,810			-4,744	Ļ٥	2	1	-0	4	5	-0	7	0

The land of this tract is on the whole good, but there is a small proportion of sand, and to the north and west irrigation is difficult and expensive. On the east, the pergunnah does not extend so far as the Kalee, and the broken land along the river is all in the outlying estates of Pergunnah Moozuffernuggur. Of the townships on the Hindun, again, the most northern of all, Ladwah, is the only one which is inferior; the others are well cultivated and productive estates. The considerable fall in the assessment was hardly necessary; but many estates were, at the time of Settlement, much depressed owing to the drought, and Mr. Keene, who began the Settlement of the pergunnah, recommended that the assessment should be revised after the lapse of five years. This circumstance would of itself be an argument against Permanent Settlement, which is moreover put out of the question by the prospect of the canal irrigation from the Deobund Branch; for there is no estate in the tract, the assets of which will not be largely increased by a moderate supply of canal water. I would therefore recommend that the present assessment be sanctioned as a temporary one for 15 or 20 years, and that it be revised when the irrigation from the Deobund Branch shall have become fully developed.

4. The tract beyond the Hindun.—The areas and assessment of the 19 estates lying to the west of the Hindun at the Settlements of Mr. Thornton and Mr. Martin were as follows:—

Settlement.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable.	Dry.	Assessment.	Rate per sere of total			Rate per scre of as-	sessable area.		Rate per scre of cul-	ivation.	-
							Rs.	Rs.	A.	P.	Rs.	Δ.	P.	Rs.	Ā.	P.
Former Settlement	14,681	12,804	8,622				23,088		9	2		12			_	8
Present Settlement	14,901	12,655	1,757	10,898	7,564	8,334	23,240	1	8 	11		13	_4	2	2	_1
Difference	+220	-149	-1,865	+1,716	•••		+152	- 0	0	3	-0	0	6	0	6	2

The change in the assessment has been very trifling, and indeed in most instances the old assessment was left very much as it stood. That this was the case is unfortunate, for since Mr. Thornton's Settlement canal water has been brought into the pergunnah, and the change due to this cause is very unequal and could hardly be expected exactly to make up for the portion of the assets now relinquished by Government. In some estates, which were fully irrigated from wells before Mr. Thornton's Settlement, relief was called for, notwithstanding the new irrigation from the canal, while other and dry estates have been enormously improved by the large extension of irrigation.

5. Six estates recommended for Permanent Settlement.—Although, then, 15 estates west of the Hindun are eligible for Pemanent Settlement under the 80 per cent. rule, and in the majority of these no great increase of irrigation can be looked for, I have been able to recommend for Permanent Settlement only 6 estates. It will be seen that these estates are as regards assessment nearly on a level with the adjoining portion of Shikarpore, to which this tract is—the Jat villages at least—exactly similar. To the north the cultivators are Rajpoots, whose turbulence secured them such light assessments in former times that it was not practicable, even if it had been expedient, to raise the Government demand all at once to the level of neighbouring villages owned by more industrious castes.

Recommended for Permanent Settlement.

Names of estates.	Total area in acrea.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assessment.	Rate per acre of as- sessable area.	Rate per acre of cul- tivation.	Remarks.
					~~~		Rs.	Rs. A. P	Rs. A. P.	
Jasoi	1,657	1,482	226	1,256	598			1 14 8		On the river.
Salikheri	694	606		586	557	29		8 1 11	3 3 7	l
Alipurah Talukheri	662 531	513	46		418			2 11 8		
Mahmudur Mandan	580	475 527	24 40	451 487	311 487	140	1,570 2,000	8 4 10 3 11 7	8 7 8 4 1 11	
Yamadah	828	229	26	203	187					On the river.
Vanagau	020			200	101	10		2 9 11	2 10 3	OH THE LIVEL.
Total	1,447	3,832	382	<b>3,4</b> 50	2,558	892	10,260	2 10 10	2 15 7	

Even in the assessment of some of these estates there is more inequality than is desirable, or than would in all probability have been allowed to remain had it been known at the time of Settlement that the demand then fixed was to be declared permanent; but the difference between a full assessment and that fixed is not sufficient, even in the case of Alipurah, to warrant the exclusion of the estate.

6. The exclusion from Permanent Settlement of nine Estates recommended.—The estates which are eligible under the 80 per cent. rule, but which I am unable to recommend for Permanent Settlement—partly on account of the probable increase to the assets by the further extension of canal irrigation, and partly owing to the inadequacy of the present assessment—are the following:—

Names of estates.	Total area in acres.	Total assemble area.	Culturable waste.	Caltirated av	Wet,	Dry.	Авеншео с.	Rate per acre of as- sessable area.	Rate per sere of oulti-	Remarks.
							Ra.	Ra, A. P.	Rs. As. P.	
1. Atali 2. Budhinah Kalan 3. Pipalherah 4. Chiraoli 5. Chatela 6. Dhaoiri Pati Dihkanah 7. Soi njini 8. Labardah 9. Naglah Petorah	924 2,032 1,085 371 1,151 349 1,196 679 648	635 1,551 946 237 1,042 850 1,070 630 549	69 42 91 17 184 17 176 89 83	1,509 855 920 908 818 894 541 516	441 1,977 590 154 775 596 518 418	66 133 313 299 23	1,200 1,000 449 1,200 800 2,300 1,000 1,200	2 0 0 1 0 11 1 13 6 1 2 5 0 14 6 2 2 4 1 9 5 2 3 0	2 1 8 2 0 11 1 2 9 2 0 0 1 5 2 0 15 4 2 9 2 1 13 7 2 5 3	On the slope,

7. Recommendations regarding Pergunnah Bagra.—My recommendations therefore regarding this pergunnah are, that, of the fifteen estates beyond the Hindun eligible under the 80 per cent. rule, six should be settled permanently, and that the Permanent Settlement of the remaining nine be delayed, and that the Settlement of the Cis-Hindun Tract should be sanctioned for a term of fifteen or twenty years, so as to allow of the development of irrigation from the Deobund Branch before another and it may be final revision of the assessment shall be undertaken. The three classes of estates formed in this pergunnah, with the area, assessment and the incidence of land revenue on each, are shown in the following Statement:—

Numbers of estates.	Total area in acrea.	Total assessable area.	Culturable waste.	Cuitivated area.	Irrigated	Dry.	Assessment,	Bate nes area of total	area.			scatble area.		31,000	Taked area.	
<b>8</b>							Ba.	Ra.	Δa	P.	Re.	Ås.	P.	Rs.	Ås.	P.
Six estates recom- mended for Perma- nent Settlement Fifty-four estates eli-			12	3,450	2,558	892	10,860	1	4	u	2	10	LO	2	15	7
gible under the 80 per cent. rule Sixteen estates with less than 80 per cent. of the assess-	a		.7	81,051	14,084	16,967	58,771	1	8	0	1	11	7	1	14	8
able area culti-	ı		<b>19</b>	7,846	9,417	5,429	18,36D	1	0	ő	,	2	8	ι	11	3
Total Including masses vil-	4		18	42,347	19,059	23,288	82,391	1	7	8	1	10	7	1	15	3
lage	]_		34	809	163	146	700	_	144			***			***	
Total (assessed)	56,054	49,152	7,114	42,038	18,896	28,142	81,691		***	-		***	_		104	

^{8.} Pergunnah Charthawal.—As in the case of Bagra, it is necessary to consider separately the two entirely distinct circles into which the Pergunnah of Charthawal is divided by the River Hindun.

Cis-Hindun Tract.—Former and present Settlements.—Permanent Settlement not recommended.—The portion east of the river contains 42 estates, the areas and incidence of assessment in which at the former and recent Settlements were as follows:—

Settlement.	Total area in acres.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assessment,	Rate per acre of total area.	Bate per acre of assess- able area.	Rate per acre of culti- vated area.
Former Settlement, Present Settlement,	88,101 88,867	31,689 33,922	4,738	27,099 29,184		21,674	Rs. 44,002 39,883	126		1 10 0
Difference	+766	+2,233	+148	+ 2,085			•••	-0 1 1	-0 3 5	-0 4 2

In this as in so many other pergunnahs in the district, the area under irrigation at last Settlement cannot now be ascertained, but there can be little doubt that this tract has made considerable progress; and that the present assessment is most moderate. The great want of the pergunnah is water, and that is now at last likely to be soon supplied from the Deobund Branch, which, when completed, will entirely change the circumstances of this tract. There is at present no estate of the 36 eligible under the 80 per cent. rule in which a moderate supply of canal water will not increase the assets assumed at Settlement by more than 20 per cent., and I therefore recommend that the present assessment be sanctioned as a temporary one, and that Permanent Settlement be delayed until canal irrigation shall be developed and the Settlement shall be again revised.

9. Portion west of Hindun.—Former and present Settlements.—To the west of the River Hindun lies the more fertile portion of the pergunnah, containing 17 estates, of which 12 are watered by the Eastern Jumna Canal. The areas and the incidence of the assessment in this tract at the recent and former Settlements are as follows:—

Settlement.	Total ares in sores.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigated.	Dry.	Assessment.	Rate per acre of total area.	Rateperacreof assess- able area.	Bate per acre of culti- vated area.
							Rs.	Rs. As. P	. Rs. As. P.	Rs. As. P.
Former Set- tlement Present Set-	1 <b>9,</b> 8 <b>2</b> 6	16,609	4,267	12,342			20,655	1 0 8	1 3 11	1 10 9
tlement	20,182	17,927	2,760	15,167	7,664	7,503	21,753	1 1 3	1 3 5	1 6 11
Difference	+356	+1,318	1,507	+ 2,825	•••		+1,098	+0 0 7	_0 0 6	_0 <b>3</b> 10

Mr. Colvin, who settled this pergunnah, was of opinion that Mr. Thornton had assessed this tract "in anticipation of the rajbuha which was afterwards run out." But this view is not sufficiently confirmed; for the rajbuha was not opened until eight years after Mr. Thornton's Settlement, and the estates in which a high jumma was fixed are without exception well supplied with wells; while others close to the line of the rajbuha, but without wells, were assessed at very low rates. Unfortunately the area recorded as irrigated at last Settlement has not been ascertained, but there is

primâ facie ground to expect a considerable increase to the assessment of a tract in which the area under cultivation had risen over 20 per cent., and in which a rajbuha irrigating nearly 5,000 acres had been constructed since the previous Settlement.

- 10. Adequacy of present Settlement considered.—Although, however, there can be no accurate comparison of the irrigated areas of the present and former Settlements, it is possible to compare the rates assumed by Mr. Thornton with those of the present Settlement. Mr. Thornton's rent-rates for wet and dry rosli, which comprise nearly the whole of the land in this tract, were Rs. 4-7-0 and Rs. 2-7-1\frac{1}{2} respectively. Those given by Mr. Colvin's assessment are about Rs. 3-12-0 wet and Rs. 1-14-0 dry. That these rates (equivalent to annas 10 and annas 5 per kutcha beegah) are extremely low, is shown by the rates given in Appendix II.; while those found in adjoining pergunnahs to the south and west confirm the conclusion to which a comparison of the Settlement rates points, that those assumed at the recent Settlement are needlessly low, and that the present assessment does not represent the half-asset value of this prosperous and greatly improved tract. A sudden enhancement was at the time of Settlement undesirable; for the once turbulent Rajpoots had hitherto been leniently dealt with; but there seems to be no reason why the present light assessment should be made permanent.
- 11. Permanent Settlement not recommended.—I am therefore unable to recommend any estate in this tract for Permanent Settlement, for even the most highly assessed of all—Biralsi—has been settled at a sum very considerably below half assets. Indeed, the best estates in this circle are very little below those of the pergunnahs to the south, and it is found that when the land is let to others than the relations of the owners, rents rise nearly as high in Charthawal as they do in Shikarpore, Kandhlah and Boorhanah.

The estates in this tract eligible under the 80 per cent. rule are as follows:--

	Names of estates.	Total area in acrea.	Total assessable area.	Culturable waste.	Cultivated area.	Irrigable,	Dry.	Assessment.	Rate per acre of agrees- able area.	Rate per acre of culti- vated area.
								Rs.	B. As. P.	R. As. P.
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 16. 17. 18.	Arnsech Badh Baluahkheri Biralsi Budahkherah Bhambelah Pipalsan Pilkhani Tandah Chimao Dudhli Raoni Alamgirpore Alipurah Qiampore Kanarheri Gunesjudi Giyanah Muzrah Harnakee	506 442 1,291 785 880 1,194 2,050 366 427 799 1,743 1,169 503 427 683 670 647 759 624	465 396 1,203 728 750 1,144 1,827 323 367 694 1,533 1,063 473 390 606 617 598 652 578	74 27 52 116 119 193 352 24 19 116 126 158 49 60 62 52 28 74	391 369 1,151 612 631 1,475 299 348 578 1,407 905 424 851 546 555 546 624 504	70 255 792 604 143 360 485 268 283 179 898 581 209 219 80 424 268 246	321 114 359 8 488 591 990 81 65 399 509 374 215 132 466 131 278 88 258	\$00 \$80 1,550 1,600 1,600 530 660 800 2,200 1,650 525 510 600 1,060 881 950 850	0 10 4 1 7 5 1 4 8 2 3 2 1 5 4 0 11 4 0 14 0 1 10 3 1 12 9 1 2 5 1 7 0 1 8 10 1 1 9 1 4 11 0 15 10 1 11 6 1 7 7 1 7 6	0 12 31 1 9 2 1 5 8 2 9 10 1 9 41 1 1 4 1 12 4 1 14 4 1 16 2 1 9 0 1 13 2 1 3 9 1 7 0 1 1 7 1 14 7 1 9 10 1 1 10
	Total	15,965	14,407	1,740	12,667	6,850	5,817	18,646	1 4 8	1 7 61

12. The remaining upland pergunnahs of the Huzoor Tehseel Poor Chapar and Moozuffernugger having been already disposed of, and the Khadir Pergunnah of

Gordhanpore having previously been pronounced ineligible for Permanent Settlement, there are, therefore, if my conclusions be correct, only six estates in this tehseel, situated in Pergunnah Bagra, which are in every way suitable for Permanent Settlement. That more are not recommended is due in some measure to insufficiency of assessment, but in far the greater number of instances to the great change which will be effected by the opening of the long projected Deobund Branch, which will enormously increase the productiveness of a tract which with good soil, owned and cultivated for the most part by industrious brotherhoods, only wants more plentiful means of irrigation to enable it to rival the prosperous condition of the lands lying to the east and west of the Kalee and Hindun Doab.

The 9th February, 1870.

A. CADELL,

Settlement Officer.

APPENDIX I.

List of Estates in Pergunnah Bagra.

Sixty estates with 20 per cent, of the assessable area under cultivation, and eligible for Permanent Settle reent.	Sir Estates recommended for Permanent Settlement.	1. Jasoi. 2. Salihkhereeh. 3. Alipurah.	<ul> <li>4. Lalukheree.</li> <li>5. Mahomadpur Mandan.</li> <li>6. Nawadah.</li> </ul>
	Fifty-four estates, the excitation of which from Permanent Settlement is recommended.	1. Atali. 2. Bazeedpoor. 3. Barwalah. 4. Bagrah, Pati Aawan. 5. Ditto Turkman. 6. Ditto Hardiyal. 7. Ditto Seetal, Bahadar. 9. Ditto Moradpurah. 10. Boodeenah Khoord. 11. Ditto Kalan. 12. Bhoapur. 13. Pipalherah. 14. Peennah. 15. Taolee. 16. Jagaheree. 17. Jalalpur. 18. Charaolee. 19. Chataila. 20. Haidarnagur. 21. Durganpur. 22. Dhandaolee. 24. Dhandaolee. 25. Sanjuk. 26. Sikandarpur. 27. Sohnjnee.	28. Saidpurah. 29. Shamushpur. 30. Zafarpur, Pati Bakhtawar Singh 31. Ditto, Shamsher Khan. 32. Alipurah Khoord. 33. Qazeekherah. 34. Kanaonee. 35. Kabeerpur. 36. Karwarah. 37. Kifayatpoor. 38. Khataolah. 39. Kharanja. 40. Kheree Doodadharee. 41. Labordah. 42. Maksoodpoor, Pati Brahmanan. 43. Ditto, Jatan. 44. Mokandpur. 45. Mandee. 46. Nirmanah. 47. Nirmanah. 47. Nirmanee. 48. Narotampur. 49. Nuglah Kithourah. 50. Harsaolee, Pati Anwar. 51. Ditto, Bahadur. 52. Ditto, Bahadur. 53. Ditto, Khodadia. 54. Ditto, Khodadia.
	Sixteen estates with less than 80 per cent. of the assessable area under cultivation, and ineligible for Permanent Settlement.	<ol> <li>Ameernuggur, Pati Bakhtawar Singh.</li> <li>Ditto, Shamsher Khan.</li> <li>Titawee.</li> <li>Dhaolree, Pati Hajee Khan.</li> <li>Shahpur.</li> <li>Tahurpur.</li> <li>Kamrudinnagar.</li> </ol>	8. Kootbee. 9. Goojarheree. 10. Ladwah, 11. Lakhan. 12. Naseerpur. 13. Noonakherah. 14. Harsaolee, Pati Oodhu. 15. Ditto, Pahal, rent-free. 16. Dhaolra.

## List of Estates in Pergunnah Charthawal.

· .	1.	Arnaech.		29.	Dadheroo Khoord.
	2.	Akhlour.		80.	Ditto Kalan.
,	8.	Badh.		81.	Doodhlee.
	4.	Bannagar.		82.	Dehchund.
•	5.	Badhai Khoord.		33.	Deedaheree.
Í	6.	Ditto Kalan.		84.	Rohnee Hurjeepur.
	7.	Biralsee.		85.	Saidpura Kulan.
	8.	Barkallee Salemp	ur.	36.	Said Nugla.
	9.	Baluah Kheree.		87.	Alamgirpur.
	10.	Boodha Kherah.		88.	Useespur.
	11.	Baheri Mirzapur	•	89.	Ulceroors.
	12.	Bhambelah.		40.	Qiampur.
Fifty-five estates with 80	18.	Begumpur.		41.	Kanarheree.
per cent. of the assessable area under cultivation,	14.	Pepalsan.		42.	Kuchowlee.
and eligible but not re- commended for Perma-	15.	Pilkhani.		48.	Kussoulee.
nent Settlement.	16.	Paotee.		44.	Kallurpur.
	17.	Tandah.		45.	Koolehree.
	18.	Jat Nuglah.		46.	Kotesra.
	19.	Charthawal Pati,	Bansi.	47.	Gunesjuddi.
Í	20.	Ditto,	Chakdanda.	48.	Ghesookherah.
,	21.	Ditto,	Rajbibee.	49.	Giyanah Masra.
	22.	Ditto,	Chowdhrain.	50.	Loharee.
i	28.	Ditto,	Ratta.	51.	Mohibaleepur.
i	24.	Ditto,	Ulmoo.	52.	Mahmudpur Lakarsunda.
	25.	Ditto,	Moorda.	58.	Nirdhana.
	26.	Chowkra.		54.	Harnakes.
	27.	Chimao.		55.	Hybatpur.
į	28.	Khoosropur.			
{	1.	Akbargurh.		7.	Kaliana.
Eleven estates with less	2.	Biralsa.		8.	Muthra.
than 80 per cent. of the	8.	Rassulpur.		9.	Munganpur.
cultivation, and ineligible for Permanent Settle-	4.	Sekandarpoor.		10.	Niamoo.
ment.	5.	Soongalpur.		11.	Naglah Racen.
t	6.	Kassiara.			
	· 	***			· · · · · · · · · · · · · · · · · · ·

APPENDIX II.

Rent-rates in Pergunnah Bagra per Kutcha Beegah = one-sixth of an Acre.

.30	Name of Village.	Village.		Rent-rate fixed	Rentrales per kutcha beegah fixed at Settlement.	s beegah mt.	Rent rates	rates fixed by private agreement at and since Settlement,	vate agreemi ilement,	nt at and	Rent-ra	Rent-rates fixed in Court.	1	Remarks regarding rent-rates fixed by private agree-
Nambe	,			Wet.	Dry.	Bhoor.	All round.	Wet	Dry.	Bhoor.	Wet.	Dry.	Bhoor.	ment and in Courts
-	Atali,	:	:	:	:	:	:	0 14 0	0 6 0	:	:	:	:	364 acres. Among members of the brotherhood.
64	Pipalherah,	:	:	:	:	:	:	0 6 0	0 9 0	:	:	:	:	267 " Among members of the brotherhood.
60	Budhinah Kalan,	:	:`	:	:	:	:	0 13 0	0	:	:	i	ŧ	366 ,, Among members of the brotherhood.
. 4	Jasoi.	1		0 14 6	~ 	•	•	0 13	8	4	•			26.90 1
•			_	0 12 6	0 9 0	ľ			,	•	<b>!</b>		•	
20	Chatela,	Ξ	<b>:</b>	:	:	i	:	:	i	i	:	:	:	No money rents.
9	Chiraoli,	:	:	:	:	:	:	0 14 0	0 10 0	:	i	:	:	142 acres.
~	Dhaolri, Pati Hajee Khan,	Khan,	:	:	:	:	:	:	:	•	i	:	:	No Money rents.
æ	Dhaolri, Pati Dihkanah,	nah,	:	:	:	:		:	i	:	:	:	:	Ditto
•	Sohnjai,	:	i	:			:	0 14 0	0 6 0	•	:	:	ŧ	341 mcres.
90	Salihkheri,	:	:	0 14 0	: :	: :	:	1 1 4	:	:	i	:	:	114 acres by private agreement, for 84 acres at Settlement,
=	Tahirpur,	:	i	:	:	:	:	:	:		i	:	:	No money rents.
20	Alipurah Kalan,	:	ŧ	:			:	1 1 4	i	:	i	:	÷	141 acres.
33	Kumrudinnagar,	:	:	:	: :	:	:	0 12 0	0 8 0	:	i	:	E	217 acres. The wet land is let to favoured cultivators of the zemindars' caste.
7	Gujarheri,	i	i	:	: :	::	:	1 0 0	0 8 0	0 4 0	:	:	:	65 acres. Lower rates for land on the slope,
18	Lalukheri,	:	:	:	:	:	:	0 0 7	0 8 0	:	:	:	:	
16	Labordah,	:	:	:	:	:	:	0 8 0	:	:	:	:	:	18 " Among the proprietors themselves.
11	Mahomedpur Mandan,	:. fi	:	:	ŧ	:	:	8 9 1	:	ŧ	:	:	:	
38	Naglah Petorah,	i	į	:	:	:	0 8 0	i	:	ŧ	:	:	:	36 ,, Levied from proprietors alone.
13	Nawadah,	÷	-	:	:	:		0 1 6	0 10 0	:	:	:	:	. 160 "

APPENDIX II.-(concluded.)

Rent-rates in Pergunnah Charthawal per Kutcha Bsegah=one-sixth of an Acre.

·	Name of Village.	7illage.		fixed	nentrucs per kuina beegan fixed at Settlement.	nent.		nentrues fixed og private ogreement as and since Settlement.	ttlement.	Mt as and	Rent-ra	Rent-rates fixed in Court.	Court.	Remarks regarding rent-rates fixed by private
-		·	<u>;</u>	Wet.	Dry.	Bhoor.	All round.	Wet.	Dry.	Bhoor.	Wet.	Dry.	Bhoor.	agreement and in Court.
Arnaech,	:	:	:	:	:	· :	:	:	·	:	:	:	· :	No monev renta.
Akbargurh, Barh,	::	: :	: :	::	: :	: :	: :	0.0	0 10	•	:	:	:	Ditto.
Biralsak, Biralsi,	:::	::	:::	::	:::	:::	0 1 0		::		14	0 1 0	:::	6 a. S. S. S. S. S. S. S. S. S. S. S. S. S.
Baluah Kheri,	eri,	:	:	· :	:	:	:	0 14 0	0 8 0	:	:	:	•	poots themselves,
Budha Kherah,	rah,	:	:		<u>.</u>	:	:	:	:	:	:	:	:	
Bhambelah,	:	:	i	` !(	:	:	i	:	:	:	:	·:	:	No money rents.
Pipalsan, Pilkhani,	::	: :	::	)°:	) <u>.</u> :	::	::	0 10 0	::	9:	::	::	::	182 acres. Rate paid by pahis.
Tandah, Chimao, Dudhli.	: : :	:::	:::	::.:	:::	:::	::	으 : -	0 7 0	: : 4	<b>:</b> :	1:	::	•
Raoni, Sikundarpur,		: ::	: ::	:::	: ::	: ::	: ::	0 13	: -	• ::	: ::	: ::	: ::	No money rents. 26 acres. In commutation.
Alamgirpur, Alipurah,	:: £	::	::	::	::	::	::	<b>/</b> * ::	ن ) م	::	::	, ::	:	186 ". Among Rajpoots themselves. No money rents.
Asysmpur, Kanarheri, Gunesiudi	: : :	:::	1::	:::	:::	:::	: : :	0 0 7 + 1	e : :	::	::	::	::	202 acres. 80 %
Gyanah Mar Manganpur,	azrah,	:::	:::	:::	: : :	: : :	: : :	0 11 3	00	: : :	:: 1	:::	:::	111 acressor remains 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acressor 111 acress
Niamu, Harnakí,	: <b>:</b>	::	::	::	: ::	::	::	0 0	: 6	: : :	0 14 0	: : :	:	

# Statement showing the Tenures on which the Mehals of Zillah Moozuffernuggur are held.

Pergunnah.	Zemindaree.	Putteedaree.	Bhyachara.	Total.
	1. Babree Mehal, Baluk Ram. 2. Sikka. 3. Senta Puttee, Basa Khan. 4. Shumshpore.	1. Babree Mehal Newab 2. Jumalpore Nuglee. 3. Senta Puttee, Rajpoot. 4. Ditto. Gomanee. 5. Kuroree.	1. Adumpore. 2. Budheo. 3. Burla Jat. 4. Bulwa Puttee Musulmanan. 5. Ditto, Ditto, Hindwan. 6. Bumnolee. 7. Bunut Puttee, Rumzan Ali. 8. Inito, Sawaee Singh. 9. Ditto, Seelaput. 10. Ditto, Mahr Singh. 11. Buntee-khera, Jatan. 12. Ditto, Runguran. 13. Bunhera. 14. Bootrare. 15. Bootrare. Afghanan. 16. Ditto, Jatan. 17. Bhajoo. 18. Bhaoree. 19. Bheeswal. 20. Bheeka Muzra. 21. Bheekee Deh. 22. Bheekee Kadana; 23. Tajpore Sumbhalka. 24. Titolee. 25. Julalpore. 26. Jundheree. 27. Jhal Puttee Gulhwala. 28. Jhal Puttee, Khrub. 29. Chuk Khanpoor. 30. Chuk Kasimpore. 31. Chonsa, 32. Rhanpore Tulba Muzra. 34. Dhuena. 35. Seekundra. 36. Sonta. 37. Sulawur. 38. Shamlee Puttee Bhugwan Singh. 39. ditto, Jowahur Singh. 40. ditto, Ghasee Ram. 41. ditto, Muhuldarpoora. 42. Shekhopoora. 43. Stutehpore. 44. Kasimpore. 45. Kabrote. 46. Kuroda. 47. Kuseerwah Khoord. 48. ditto, Kulan. 49. Kunjurheree. 50. Kunoonkhera. 51. Koodana. 52. Koormalee. 53. Kheree Buragee. 54. Kheree Puttee. 55. Kheree Kurmoon. 56. Kyree. 57. Goorhenee. 58. Gurh Shaishtpore. 59. Gohurpore. 60. Gogurpore. 61. Lank. 62. Leloun. 63. Muhdoodpore Afghanan. 64. ditto, Jatan. 65. Mahrumpore. 66. Mondet. 67. Mundet. 67. Muhabatpore. 68. Niamutoollapore.	· <del>·</del>
Total,	4	5	68 77	7

S. N. MARTIN, Collector.

Statement showing the effects of alteration by sales in execution of decres of Court, or by private Transfer, during the currency of the past settlement in the Tehseel Shamles, Pergunnah Shamles.

| Name of Pergunnal.

1,944 3,189 acres conflected, 45 on account of rebellion. The transfers in this pergunant and among the land is mostly held on that hyachars, tenure, 79, each village containment and set in the set numbers of shareholders, as population increases, these people must mortgage and sell to each other; they cannot go on ting clinging to the soil as proprietors, they will gradually become cultivators, they will gradually become cultivators, they may will gradually become critical will, I hope, step into their places. The transfers them may be thus classed. By order of Court, 54 per cent. Confiscated for rebellion, 4‡ per cent. Exempt, 79‡ per cent. Remarks. **64** per cent. 51,944 멅 VGLC9* EXEMPT FROM TRANSFERS. 181 51,083 acres. ä Portions. ģ Whole Villages. 6 Value, TOTAL. 13 17 16, Portions. 9 Mpoje Aijjagesž Yalue. TRANSPERS BY ORDER OF COURT. ŝ Actions 6 19 3,531 井 A cres. 180 10, 11. Portions. : Whole Villages. • 0 1,75,073 oi. Value. PRIVATE TRABSPERS. 15,698 14 αį adan t 6,786 10 ŗ. Acres. ş ď Portions. ıġ Whole Villages. 1,30,270 8 0 ... Kistbendee 1268 F. S. 4 68,450 300 नई Mumber of Villages.

Shamles.

N. MARTIN, Collector.

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Supplement to the Statement showing the effects of alienation by sales in execution of decress of Court, or by private transfer, during the currency of the Settlement in the Tehseelie of Mozuffernuggur.

Exempt from Transfer.	Portions,	Acres. 3,190=88,808	8,190=38,808	286= 1,090	286= 1,090	878= 1,968	378= 1,968
Бхви	Whole Villages.	Acres, 3=684	3=684	i		:	••
Br order of Court.	Portions.	Acrea. 9	144=2,433	i.	i	:	:
Br	Whole Vil- lages.	11:111	:	I	:	:	<u> </u> :
	Caste of Transferee,	Behora, Jat, Mahajun, Brahmin, Knuttree, Kaeth, Sheikhzada,	Total,	ī	•	ī	:
ORDER OF COURT.	Portions.	Acres. 144—2,433	144-2,489	:	:	i	:
Br	Whole Vil- lages.	:	:	:	÷	:	:
PRIVATE TRANSFER.	Portions.	Acres. 36 = 302 808 = 1,435 290 = 2,173 4 = 25 60 = 24 10 = 21 10 = 21 25 = 2 10 = 21 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2 25 = 2	747-4,888	8 11 11 11 11 11 11 11 11 11 11 11 11 11	86- 277	20- 147 10- 76 10- 76 4- 43 3- 26 2- 9 1= 4 1= 38	44= 343
PRIVAT	Whole Vil-	11:11:11:11:1	:	::1:::	:	11:::::	:
	Caste of Transferee.	Behora, Jat, Mahajun, Khutree, Krounar, Brahmin, Goldsmith, Kumboh, Rath, Rath, Sheik bada, Fukeer, Carpenter,	Total,	Jat, Fukeer, Sheikhzada, Syud, Brahmin, Mahajun,	Total,	Brahmin, Mahajun, Sheikhzada, Syud, Jat, Fukeer, Khuttree,	Total,
PRIVATE TRANSFERS.	Portions,	Acres. 747=4,388	747=4,488	3611 277	36= 277	44= 343	44= 343
PRIVAT	Whole Villages.	ŧ	:	:	:	:	:
	Caste of Transferrer.	Jat,	Total of Jat,	Sheikhzada,	Total of Sheikhzada	Brahmin,	Total of Brahmins,
'qu	Pergunn		E.	SHAKLE		· · · · · · · · · · · · · · · · · · ·	-

Supplement to the Statement showing the effects of alternation by sale in specution of decree of Court, or by private transfer, during the currency of the Settlement in the Tehseeles of Moocuffernugger.

<u> </u>			1		1		1						
Exert Pros Transfer.	Portions	Acres. 260=9,179	260-2,179	364-2,558	864-2,558	67 - 93	67 - 98	68 <b>-</b> 96	36== 89	191 48	181 48	14= 16 146=1,815	164-1,315
Exer	Whole Vil-	Acres.	:	1-177	1-177	I	•	:		i	÷	<b>!</b> !	;
ORDER OF COURT.	Portions.	Acres 20 m 4	6= 26	28	8 1 8	: :	:	11	20	3=729	8=729	: # F F F F F F F F F F F F F F F F F F	6- 76
<u></u>	Whole Vil- lages.												
	deree.	111	i	: :	•			::	:	i	:	111	i
	Caste of Transferee.	Jat, Brahmin, Mahajun,	Total,	Mabajen, Brahmin,	Total,	::	•	Moorul, Syud,	Total	Mahajun,	Total	Mahajun, Rajpoot, Bradmin,	. Total,
ORDER OF COURT.	Portions.	Acres.	5- 26	1	ĩ		:	\$ \$	13	84-78	3-729		5= 76
Ä	Whole Villages.	·	:	:	1	:	] ;	1	:	1	:	: :	:
PRIVATE TRANSFER.	Portions.	Acres. 4 29 29 16 26 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	48- 269	<b>11</b>	11= 53	11	11	1	11 00	28 AMA	14=1,067	: 1111	14-17
Partar	Whole Vil- lages.	1111111	:	::	1	::		:	1	11	:	11:1:	:
		::::::::	ŧ	# :	:	::	ŧ	Ē	ŧ	11	i	1111	:
	Caste of Transfaree.	Brahmin, Jat, Mahajun, Mahajun, Ratkan, Rhuttree, Fakeer, Bebore, Shelithanfa,	Total,	Goojur, Brahmis,	Total,	Mabajun, Kasth,	Total,	Synd,	Total,	Moorul, Mahajun,	Total,	Mabajun, Rajpoot, Byud, Chumar,	Total,
PREVAUS TRANSPORM	Portions.	Acres.	48= 262	11= 55	11- 53		11	1	2	14-1,067	14=1,057	14 71	14- 77
Patrage	Whole Vil.	:	:	E	ŧ	:	;	:	ŧ	:	:	::	;
	Casts of Transferrer.	Madajun,	Total of Mahajun,	Goojur,	Total,	Eacth,	Total,	Synd,	Total,	Baloch,	Total,	Khuttree,	Total,
- T	Perguma	<del> </del>	_										—— ——

A. COLVIN,
Settlement Officer.

						(73)			_
298= 1,279	298- 1,279	32= 164	82= 164		37= 62	1= 6 1= 4 9= 57 1= 2 13= 281	13= 281	3= 1,002	5,181=51,083=3,189 acres confiscated on account of rebellion.
: :	:	:		:	:	- <b>           </b> :	:		4=861
2= 41	8= 93	76 = 8	2= 24	:	:	::: <u> </u>	]= 4	:	180=3,531
::	:	•	:	<b>:</b>	:		:	:	:
ii	:	-	:			i i	:		-
Mahajun, Pathan,	Total,	Mahajun,	Total	:	:	 Mahajun, Sanee,	Total,	:	<b>:</b> \
30	8= 93	% = %	2 = 2	*		: :	3= 4	i	180==3,581
:	:		:	:	:	11:11:		i	, <b>i</b>
14= 92	26= 141	1   36 1   66 5   35	7= 187	11	3 -6		2= 27	:	949=6,786
::1	:	: 1 :	:	::	:	::::::	 	:	i
Sheikhsada, Pathan,	Total,	Kaeth, , Fakeer, , Mahajun, ,	Total,	Jat, Behora,	Total,	Behors	Total,	:	:
26 141	26= 141	7= 137	7= 187	2= 5	2== 5	:::::#	2= 27	:	949=6,786
:	:	•	:	•	:		:	• :	;
Pat han,	Total,	Faket	Total,	Behora,	Total,	Moghul, Barber, Bheestee, Goldsmith, Sanee,	Total,	Kullal,	GRAND TOTAL, ***
EVHO		Ħ.		Ă —		<b>≱</b> ÄÄÖÖÖ <b>Ä</b>		N N	<del></del>

19

Profits due to Canal.

12	Met gain to the Revenue of the Pergannah from the Influence of Canals.	Be. a. p. 5,107 0 0
11	Portion of decrease attri- butable to the influence of the Canal.	<b>:</b> ·
10	Дем Элшшэ.	:
6	Former Jumms.	<b>‡</b> .
œ	Number of villages injuri- ously affected by Canal.	:
7	Portion of increase attri- butable exclusively to influence of Canal.	Es. s. P.
9	Incresse.	Rs. a. p. 2,335 5 0
20	New Jumms.	Rs. 77,370
4	Former aggregate Jumma of these villages.	Bs. a. p. 75,034 11 0
8	Area under Canal irriga- tion,	Acres 14,607
oq.	Mumber of Willages irri- gated by Canal.	**
1	Pergunnah.	Shamlee,

Norr.—In estimating the profit due to the canal the amount of land irrigable from wells which have fallen into disuse since the canal was opened, has been deducted at the rate of 23 acres, for each well.—Upon the balance the difference between the wet and dry rates gives the profit,—after allowing for possible irrigation.

Statement of descriptions of soil, trrigated and unirrigated areas.

			Total Malgo	Total Malgoozares ared.						Lani	Land not 486268able;
,			Total cultivated area in acres.	acree,		÷		-3000 10 \$	eppe		
Name of Pergunnsh.					Total of	Total of irrigated land.	-lasi	no um	ant lu		
	Mesun.	Btslee,	Dakur.	Bhoor,	By Canals, &c.	By Wells.	nn to latoT bnal betag	al to latoT roudt yl itavithro	Total of c	,91aaW	Rent-free,
Shamlee,	10,639	29,494	4,137	1,185	14,607	16,618	14,232	1,409	5,797	161,11	929
	Irrigated.	Irrigated.	Irrigated.	frrigated.			•				
	"By Well. By Canal. 6,629 8,612	By Well. By Canal. 8,611 8,560	By Well. By Canal.	By Well, By Canal.		By Well. 15,612					
	Otherwise, 143	Otherwise. 358	Otherwise, 606	Otherwise.		Otherwise.					
	Unirrigated. 55	Unirrigated. 11,970	Uhirrigated. 1,097	Unitrigated,							

The villages to be deducted are those of which the former settlement Records are not forthcoming. They are inserted for uniformity, but are not available for comparison, and have not been included in the average. Remarks. Average of cultivation in scres. 274 Š 23 61 여 4 Deduct. Balance. Deduct. Balance. 29,513 33,566 4,119 29,117 Land cultivated by them in acres. : 396 4,612 4,533 175 4,708 Cultivating proprietors. : 29 द्व 2 Average of cultivation. è 5 m 여 64 : eq 4 0 Deduct. Balance. Deduct. Balance 1 village. 888 18,778 14,063 14,000 Amount of land cultivated.by them in acres. : 3 8,478 4,804 4,771 Ş. Tenants at will. : . 83 ď Average of cultivation in acres. 1 0 10 ន្ត 8 뼈 3 : ₹ Deduct. Balance. Deduct. Balance. 1,889 1,788 1,877 ĝ Amount of land held by them in screen. : 2 1,766 1,779 1,746 ଷ Cultivators having right of occupancy. : 13 1860, Year, Shamlee, ... 1840, ş : Name of Per-Decrease, ... Increase,...

No. 2.—Comparative Statement of Cultivators with and without right of occupancy, and cultivating proprietors.

Statement of Villages paying rents in money and kind.

Bemarks,	This Pergunnah being mostly Bhya- chara, or cultivating proprietary brotherhoods, both kinds of rent are few; Act XIV, 1863, has not been applied much.
Cultivators paying rent in money.	3005,4
Cultivators paying rent in kind.	.57,83.3
Villages in which rent in kind prevails.	6 Villages in which rent in kind prevails. 64 Ditto in which both sorts of rent prevails.
Whole Villages in which money rents previously prevailed.	7 == 445 Khatas or lots.
Total number of Whole Villages in Which money rent Villages (Menoney have been fixed hals).  Total Number of whole Whole Villages in which money rent money have been fixed hals).	
Total number of Villages (Me- hals).	77
Name of Pergunnah.	Shamlee,

No. 4.

Statement of Pukka Masonry wells used for irrigation.

Remarks.	The number in the column 4, is in addition to that in column 3.
Wells that are out of repair.	119
Masonry wells at the present Settlement.	. 788
Masonry wells at the last Settlement.	776
	į
mah.	:
Name of Pergunnah.	i .
Маше	i.
	Shamlee,

Perguanah.	1. Asudpoor. 2. Aldee Puttee "Byjnath." 3. Do. Puttee "Sudasookh." 4. Do. Puttee "Nanuk Chund." 5. Phoogana Puttee "Dyanat." 6. Chuk Bhogulkhera. 7. Churhao. 8. Rampoor Kheree Puttee "Bunseedhur." 9. Sala Kheree. 10. Esapoor Puttee Sheroo.	Putteedaree.  1. Badshapoor. 2. Bural. 3. Phokurpoor. 4. Jogeea Khera. 5. Khizurpoor. 6. Doondoo Khera. 7. Doorgunpoor. 8. Rajpoor, Chhajpoor. 9. Surnaolee. 10. Soona. 11. Fuzelpoor "Khalisa." 12. Futtehpoor Kheree. 13. Kumroodeennuggur. 14. Goojurpoor. 15. Loee. 16. Mullickpoor. 17. Hurreea Khera.	Bhyachara.  1. Umbeyta. 2 Islampoor, Ghusowlee. 3. Ailum Puttee Khoord. 4. Ailum Puttee Kulan. 5. Bamnowlee. 6. Bussee. 7. Birum Khera Puttee "Ramdut." 8. Do. Puttee "Loda." 9. Bunhera. 10. Bharsee. 11. Purasowlee. 12. Pinjokra. 13. Phoogana Puttee Hookum. 14. Do. Puttee Rajroop. 15. Jussala. 16. Chuk Dooma Khera. 17. Hussunpoor. 18. Khowaspoor. 19 Dangror. 20. Doongar. 21. Doodabar. 22. Russoolpoor.	Total.
Kandia.			22. Russoolpoor. 23. Rampoor, Kheree "Gurh Goshaien." 24. Sherpoor. 25. Sulpa. 26. Shahpoor. 27. Tahurpoor, Bhubheesa. 28. Eesapoor Puttee "Dhun Singh." 29. Fuzulpoor "Muzbitta." 30. Futtehpoor. 31. Khundraolee Puttee "Mussulmanan." 32. Do. Puttee 'Hindooan.' 33. Kuraoda. 34. Kunyan. 35. Kewana. 36. Khera Mustan. 37. Kandla, 5 Biswas. 39. Do. Mehal "Ruheemoollah." 40. Do. Mehal "Mutfirrukat." 41. Khera Kurtan. 42. Gungeyroo Puttee Sadat. 43. Do. Puttee Mussulmanan. 44. Do. Puttee Goojuran.' 45. 'Lahereepoor.' 46. Lisadh. 47. Mutnaolee. 48. Meemlah. 49. Nala. 50. Hurmuzpoor. 51. Kasimpoor.	
Total,	10	17	51	78

4	Ġ	

Ŕ		Remarks.	The 848 transfers in column 6 are equal to	and the special transfers in column 16, are equal to 1,192 persons.  The 7,115 in column 21 are shares: 1,183 acres 12 shares out of 100 for the whole, confiscated on account of rebellion.						
25	EOK B.	Acres.	53,876 acres.	8						
<u> </u>	EXRMPT FROM TRANSFERS.	Portions.	10= 7,115= 333 50,543 ores acres.							
8	· Ex	Whole Villages.	e5` e≹							
19.		Value.	1,86,716 5 11							
8 <u>8</u>	Toral.	.ammu t	11,496 17,693 14 4							
17.		.8910A	11,496	11						
76.		Portions.	966							
18		Whole Villages.	:							
77	P Court.	Value.	23,431 2							
ş	es by order (	es by order (	ES BY ORDER (	ES BY ORDER O	15 BY ORDER O	FRANSFERS BY ORDER OF COURT.	s by order of	.ammst	4,313 1 5	
<u> </u>	ANSFER	Acres.	2,714	◆.						
11.	Ę.	Portions.	148							
2		Whole Villages.	<u> </u>							
oi	<b>.</b>	Value.	1,63,286 3 11							
œi i	PRIVATE TRAHSPERS.	fats Tramberr	same	18,380 12 11						
7.	Pa	Acres.	8,782 acres.	<b>8</b> 2						
9		Portions.	848							
¥6		Whole Villages.	¥9							
4		.ammu.t	1,759 1							
øi.		Area in acres.	66,560	100						
લં	-82	Safliv to redming	4.2							

A. COLVIN, Settlement Officer.

B. Supplement to the Statement showing the effects of alienation by sale in execution of Decrees of Court, or privale transfer, during the currency of the past settlement in the Tehseelee of Boorhana.

	<u> </u>	~ <u> </u>	1	1	1		<u> </u>		<del></del>	: .	
Exempt from Transfers.	Portions.	Acres. 904== 2,456	904= 2,456	781== 8,166	781= 3,155	1,680=13,812		1,680=12,823	2,364,—20,300		2,364-20,300
EXEMPT	Whole village.	Acres.	:	2= 757	2= 767	4=1,100		4=1,100	2= 679		2= 679
BY ORDER OF COURT.	Portions.	Acres. 2 == 2	2 = 2	2 - III	4 = 6		2 = 50 1 = 1	086 29	26 = 372 4 = 103 3 = 18		33 - 493
Вт овр	Whole vil- lage.	:	:	::	:	:::::	::	:	:::		:
	Caste of Transferees.	Mahajun,	Total,	Mahajun, Sheikhzada,	Total,	æ	Kumboh, Jat,	Total,	Mahajuh, Jat, Buhora,		Total,
ER OF COURT.	Portions.	2 CC	2 = 3	1 : : :	4 11 6			57 = 981	38 = 493	::	33 == 493
Втокр	Whole vil-	1::::	:	::::	:		::::	:	::::	::	:
PRIVATE TRANSPERS, BY ORDER OF COURT.	Portions.	Acres. 31 = 281 32 = 111 1 = 50 3 = 7 2 = 12	69 = 411	1 = 1 58 = 1,414 1 = 8 1 = 8	61 =1,426	27 181 60 4 181 1 18 1 181 2 18 1 181 2 18 1 181	2 = 1 38 2 = 1 24 3 = 1 10	103 =1,430	1224 = 1,249 $1734 = 697$ $81 = 190$ $1 = 28$	2 = 23	334 = 2,189
PRIVAT	Whole vil-	::::	:	1111	:	<b>::::</b> ::	::::	:	::::	::	:
	Caste of Transferees	Mahajun, Sheikhzada, Brahmin, Syud,	Total,	Afghan, Mahajun, Sheikhzada, Lime-maker,	Total,	Goojur, Mahajun, Sheikhzada, Afghan, Brahmin, Buhora,	Kayeth, Kumboh, Jat,	Total,	Mahajun, Jat, Brahmin, Gooshaeen,		Total,
PRIVATE TRANSFERS.	Portions.	Acres. 69= 411	69= 411	61-1,426	61=1,426	103=1,430		103=1,430	334=2,189		334-2,169
PRIVATI	Whole vil-	:	:	:	:	:		:	:		:
		:	:	:	:	:		:	:		:
	Caste of Transferrers.	Sheikhzada,	Total,	Mahajun,	Total,	Goojur,		Total,	Jat,		Total,
.da	Pergunn			<del>-</del>						.A.1E	ιφ

													<u> </u>
106== 676	106= 676	503=5,866	508=5,866	11= 188	11= 188	189== 656	189= 666	29=1,117	711,117	] = 8	]= 3	47== 105	47= 105
:	:	:	:	i	:	] <b>=</b> 6	9	1= 791	1= 791	:	:	:	:
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10- 62	19 826	23=1,080	:	:	:		4= 25	4= 25	:		]= 3	#
11111	:	::	:	:	:	i	:	•	:	:		:	:
:::::	:	::	:					:	:			•	:
Jat, Mahajun, Tallor, Tugga, Shelkhzada,	Total,	Rajpoot, Mahajun,	Total,	•	:	:	:	Kurol,	Total,	:		Јожвее,	Total,
00 10 10 10 10 10 10 10 10 10 10 10 10 1	10= 62	23=1,030	23=1,030	: :	:	:::	:	Î : :	4= 26	::	:	T ::	= I
1:1::1:	:	:::::	:	::	:	: : :	:	:::	:	::	:	:::	:
23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46= 553	51= 987 1= 1 22= 522 1= 152 1= 21	76=1,683	2= 6 1= 5	<b>3</b> = 11	3= 7 13= 13 3= 3	19= 23	7= 147 1= 6 1= 8	9= 180	2= 8	3== 5	31= 92	34= 100
::::::::	:	:::::	:	::	, <b>:</b>	:::	:	:::	:	::	:	:::	:
1:::::::	:	:::::	i	::	:	:::	:	: : :	:	::	:	:::	:
Afghán, Jat, Jat, Bubora, Mooghul, Mahajun, Goldsmith, Brahmin,	Total,	Rajpoot, Conchun, Mahajun, Gooshaeen, Brahmin,	Total,	Brahmin, Jat,	Total,	Jat, Mahajun, Brahmin,	Total,	Rajpoot, Sheikhzada, Mahajun,	Total,	Mahajun, Jat,	Total,	Mahajun, Sheikhzada, Mooghul,	Total,
46= 863	46= 553	76=1,688	76=1,683	8= 11	3= 11	19= 28	19= 23	9= 150	9= 180	. 3= 5	3 5	84= 100	34= 100
:	:	•	:	:	:	:	:	:	:	:	:	i .	:
: .	:	:	i	:	:	:	:	<b>i</b> .	:	:	:	i	:
Afghan,	Total,	Rajpoot,	Total,	Ruweh,	Total	Brahmui,	Total,	Karol,	Total,	Balladmonger,	Total,	Јажgее,	Total,

Supplement to the Statement showing the effects of alienation by sale in execution of Decrees of Court, or private transfer during the currency of the past Settlement in the Tehsbelee of Boorhana.—(concluded.)

	it. Exempt from Transfers.	Whole Village.	ACTUR. 33= 318 6 186= 1,210 69	106 186= 1,210	8 \$60= 1,628	8 260= 1,628	6= 2 6= 2 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1= 1 1=	ż
	BY ORDER OF COURT.	Portions.	Acres	7 = 1	;; <b>;</b> ;	9	1 1 148 = 2,714	ğ
		Whole Vit- lage.	:::::	:	1:::::	:		
uaea.)		Caste of Transferees.	Syud, Mahajun, Brahmin,	Total,	 Vahajun,	Total,	Carpenter,  Carpenter,     Total,	
1 enseetee of Boornana.—(conctuaea.)	BR OF COURT.	Portions.	Acres. 7= 106	7= 105		6= 8	148=2,714	
Soorna	ВтОвр	Whole Vil-		:		:	11111111111111	
enseeree of 1	Private Transfers. By Order of Court	Portions.	Acres.  1 = 7  18 = 84  3 = 43  25 = 366  12 = 94	53= 587	6 3 3 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 1 7 1 8 8 8 1 8 8 1 7 1 8 8 8 1 7 1 8 8 8 1 7 1 8 8 8 1 7 1 8 8 1 7 1 8 8 1 7 1 8 8 1 7 1 8 8 1 7 1 8 8 1 7 1 8 8 1 7 1 8 8 1 7 1 8 1 8	30= 157	3= 12 12 12 11 1 1 1 1 1 1 1 1 1 1 1 1 1	
7	PRIVATI	Whole Vil- lage.	:::::	:	:::::	:		
		Caste of Transferees.	Mahajun, Syud, Goojur, Mahajun, Brahmin,	Total,	Mahajun, Mahajun, Sheikhzada, Mooghul, Mahajun, Syud,	. Total,	Mahajun, Mahajun,	
	PRIVATE TRANSFERS.	Portions,	Acres. 1= 7 587 587	53= 587	1	80= 157	848=8,782	OLVIN,
	PRIVAT	Whole Vil- lage.	::	:	: : : :	:	1111111111111111	V 1N,
		errers.	::	:	::::	:	::::::::::::::::::::::::::::::::::::::	A. COLVIN,
		Caste of Transferrers.	Goosaeen, Syud,	Total,	Bow-maker, Tugga, Betni seller, Mooghul,	Total,	Conchun, Kahar Moosulman, Males, Carpenter, Dyer, Barber, Goldsmith, Water-carrier, Blacksmith, Potter, Chumar, Sweeper, Grand Total,	Ā

	the nce	
13	Portion of decrease attributable to the influence ence of the Canal.	Rs. a. p. 9,466 0 0
11	Portion of decrease attributable to the influence of the Canal.	ï
.01	Smant wal	. :
6	Former Jamms.	:
8	Number of Villages injuriously effected by Canal.	:
2	Portion of increase attributable exclusively injuriously effected to influence of Canal. by Canal.	Rs. a. p. 9,456 0 0
9	Increase.	Rs. s. p.
10	New Jumms.	78,990
•	Number of vil- lages irrigated Canal irri- by Canal.  Sation.	Rs. s. p. 67,442 9 5
•	Area under Canal irri- gation.	25,855
æ	Number of villages irrigated by Canal.	99
-	Pergunnah.	Kandla.

No. 1. Statement of descriptions of soil, irrigated and unirrigated arreas, &c.

				Toral	Total Maigoozarer area.					LAND NOT ASSESS-	T ASSESS-	
;			Total	Total Cultivated a	area in acres.			Total of				,
Name of Pergunnah.	Meesun.	Roslee.	Dakur.	Bhoor.	Total of irrigated land.  By By Wells.	Total of un- irrigated land.	Total of t	thrown out land.	Total of culturable land.	Waste.	Rent- free.	Remarks.
Kandla,	11,008	34,348	3,971	1,012	26,856 12,951 well.	11,523	50,329	636	5,891	699'6	876	
( Wells,		7,692	122	8	other means.							
Irrigated by Canal,		16,555	8,148	:	TOTAL MALGOOZARES,	OOZARES, ==	56,356	-				
Unirrigated, For two mantee villages,	8 8	10,028	489	986	115 704	74	883	2	83	192		
	187	497	. 17	:	well.				_			
Irrigated by Canal,	<b>\$</b>	7.6	:	:	other means.							
Unirrigated,	:	71	e1 :		TOTAL OF PREGUNEAR,	GUNNAB, ==	68,152		_			

No. 2.

Comparative Statement of Cultivators with and without right of occupancy, and of cultivating proprietors.

Remarks.	The villages (5) to be deducted are those of which the former settlement records are not forthcoming. They are inserted for uniformity, but are not available for comparison, and have not been included in the average.	The fewness of hereditary tenants at the last settlement is ascribed to the fact that to prove the title to hereditary occupancy, a long period of possession was required; in the present settlement 12 years has been considered sufficient.
Average of cultivation in acres.	A. r. p. 10 1 89	2
Land cultivated by them in acres.	24,782	3,486 Deduct. Balance. Deduct. Balance. 6  villagea. villagea. 454 3,032 3,745 23,748 670
Cultivating proprietors.	ଷ ବୃହ ବି	3,486 Deduct. Balance. 5 villages. 3,032 454 3,032 670
	A. n. s. s. 18‡	8 0 ::
Amount of land Average of cultivation them in acres.	17,167	17,547 Deduct. Balance. 6 villages. 263 17,284 127
Tenants at will.	4,440	Deduct. Balance. Deduct. Balance. 5 c villages. 120 4,519 263 17,284 179 127
Average of cultivation in acres.	A. r. p. 4 8 182	64 64 64 : 42
Amount of land held by them in acres.	8	Deduct. Balance. Deduct. Balance. 5 for this ges. 161 2,197 226 5,063
Cultivators having right of occupancy.		
Year.	1840	1860
Name of Per-Year, gunnah.	Kandls,	Decrease,

S. N. MARTIN, Collector,

Collector.

S. N. MARTIN,

No. 3.

Statement of Villages paying rents in money and kind.

		nber of whole	Whole Villages in which	-) 1-0- 10-1-0	Only designed asserting assert	Cultivators seems	
Mehals. in money have been fixed money rents previous finates of those in kind.	in money have been fixed instead of those in kind.	money rents pre prevailed.	viously	Ainges in water rate in Kind prevails.	Outhwators paying rent in kind.	in money.	Remarks.
Khalisa.					`		
76 21		ส	,	75	3,521	. 2,296	Of 76 entered in column
				7 Villages in which only rent in kind prevalle. 47 Ditto in which both sorts of rent prevail.			A, t. vines (Junes Hers) is cultivated by the proprietors themselves.

No. 4.

Statement of Pukka Masonry wells used for irrigation.

1	
Bemarks,	The 42 wells entered in column 4, are in addition to those entered in column 3.
Wells that are out of repair.	\$
Masonry wells at the present Settle- ment.	356
Masonry wells at the last Settlement.	. 327
	:
unnsh.	ŧ
Name of Pergunnah.	i.
*	Kandle,

S. N. MABTIN,
Collector.

No. 5.

Statement showing the various kinds of crops grown at the time of measurement.

: Ajwåen. : Sirson or Mustard. 2 : Galur or Carrot. 23 : Melon. : 8 Mattur or Peas. œ : RUBBER. 89 .xoosnM 160 Wheat and gram. 728 Wheat and Barley. Gram. 233 Barley. 88 4 19,081 Wheat. Lodya Kungnee. 88 Kodo Shamakh -: .iau2 3 : Moong. 9.2 Tobacco. 2 ፧ Спеепа. ٠ : Torya R 4 : .ogibaI 2,889 Mákkie 403 .awbanM 102 Vegetable. 귥 1,100 Gowara KHURBER. : Lir . 9 Bajra 694 Môte. Dord 6,033 2 . TRWOL 2,646 2 Chohara Moonjee. 826 Dhân. 8,542 Churee. 2,812 Cotton. 2,824 Бикат-сале. 50,329 8 Cultivated area in acres. Kandla. Name of Pergunsh.

The lower line shows the percentage of each kind of crop.

## Statement showing the Tenures on which the Mehals of Zillah Mozuffurnuggur are held.

Bergunnah.	Zemindaręe.	Putteedaree.	Bhyachara.	Total.
ergunnah. Thannah Bhowan.	Ahmedpoor, Ambehtha, Yakoobpoor, Bagh Bungla, Thannah Bhowan, Mehal Bagyan. Janeepoor, Jumalpoor, Jumalpoor, Alleepoor, Cosmanpoor, Kadurpoor, Kadurpoor, Kootubgurh, Moolanpoor, Hurhur Futtehpoor,	Putteedaree.  Ismaeelpoor, Bhindora, Pomar Khera, Raepoor, Sownjnee Oomurpoor, Abdoolapoor, Comurpoor, Khereh Gudaiee, Gurhee Abdoola Khan Puttee Puchdo. Ditto Puttee Soem, Gogwan, Gooranah, Niralsee Oorf Kadurgurh. Nagul, Heend, Yoonuspoor,	Ahateh Ghousgurh. Aorungabad. Boontah. Behasanee Islumpoor. Bemehraooda. Pultheyree. Teetarsee. Thannah Bhowan Puttee Choudran. Ditto, Puttee Mussabee. Ditto, Mehal Moozbitta. Ditto, Puttee Mussabee. Ditto, Puttee Mussabee. Ditto, Puttee Hustum. Thirwah. Gurhee Abdoola Khan Puttee Huftoon. Ditto, Puttee Hustum. Insaneh-oorf Musthgurh. Jellalabad. Chundeyna Mal. Dubheree. Dookheree Jemalpoor. Sontah Ruscolpoor. Krivozpoor. Khyaoree. Kyi Shikarpoor. Lada Muza. Loharee. Madulpoor. Manuckpoor. Munt Muntee. Niralsehoorf, Maroo- kheyra.	Total.
			Nowjul Moujlee. Hurunwara. Yarpoor.	·
-	•			
	, , , , , , , , , , , , , , , , , , ,			
Total,	15	16		

ď

Statement showing the effects of alienation by sale in execution of decrees of Court, or private transfer during the currency of the past Settlement in the Tehseelee of Shamles.

		•	( 66 )
22.	BANS.	Acres.	31,705 Acres.
	Exempt FROM TRANS. FERS.	Portions.	1,736= 31,705 29,664 Acres. Acres.
20.	Exempt	Whole Village.	4= 2,041 Acres.
19.	•	-9#I#V,	8,661 7 1 68,614 13 3 4=  Whole Vil- Whole Vil- Acres. 1,046 1 6 10,350 0 0  Portions. Portions. 7,515 5 7 48,164 13 3
18.	Toral	.Jumma.	5,690 8,661 7 1 Acres. Whole Village. 1,046 1 6 Portions. 7,518 5 7
17.	H	Acres.	286= 5,690 4,747 cres. Acres.
16.		Portions.	286= 4,747 Acres.
15.		Whole Village.	8 0 3=943 e. 0 0 8 0
14.	URT.	Value,	13,734 8 0 3==943 286= Whole Vil- Agres, Acres, 1,460 0 0 Portions.
13.	TRABSPERS BY ORDER OF COURT.	.ammuf.	2,261 8 7 Whole Village, 150 0 0 Pertions, 9,111 8 7
12,	ERS BY	. вэтэ А	1,678 1,678
11.	TRANK	Portions.	3 1=206 60=1469 1,675 1- Acres. Acres.
10.		Whole Village.	1=306 Acres.
<b>.</b>		.aniaV	Acres. 3,278 4,015 6,299 14 6 44,780 5 1=206 60=14  Acres. 8,278 Whole Vil- Whole Vil- Acres. Acres. 896 1 6 8,900 0 0  Portions. Portions. Fortions. 5,403 13 0 35,880 5 3
8ô	PRIVATE TRANSFERS.	Jumms.	6,299 14 6 44,730 5 Whole Vil- Whole Village. 1896 1 6 8,900 0 Portions. Portions. 5,403 13 0 35,880 5
7.	BIVATE	. Астев.	4,015
		Portions.	85.278
, gr		Whole Village.	3 2==73.7 Acres.
<b>+</b>		-amma t	44,931 66,836 14 3
		жэтэА ні жэтА	
0 <del>1</del>	1	Name of Pergram Number of Villag	E E E E E E E E E E E E E E E E E E E
. ~	f. Ag		#### (

Remarks.—The 226 Transfers in Column 6 are equivalent to 303 parties, and the 60 Transfers in Column 1, to 97 parties.

The 1,736 in Column 21 are parties.
7,586 Acres confiscated on account of rebellion.

B. Supplement the Statement showing the effects of alteration by sale in assoution of Decrees of Court, or private transfers during the currency of the past Settlement in the Pupplement, the Statement in the Telseel of Shamles.

	Exempt prom Transpers.	Portions.	Acres.	<b>30= 302</b> ∷	30= 802	88= 901	::	88= 901	195= 4,028	:		195 = 4,028	815=16,672			815=16,672	122= 1,796		122 = 1,796	97= 1,143	••	97=1,143
	Exemp	Whole Village.		; <b>;</b>	:	1= 282	::	1= 282	:	:		:	; <b>:</b>			:	1= 687		1= 637	:	:	:
	BY ORDER OF COURT.	Portions.	Acres.	: : -	:	ŀ	2 5 2 5 2 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3	6== 86	5= 76			8= 114	21 = 552 $7 = 280$			28= 782	1= 171		1= 171	. 1== 87	9	2= 43
	Вт овр	Whole Vil- lage.		::	:	:	: :	:	:	:		:	: :		1	:	i		:	:	:	:
1						i	::	:	:	:		:	: :			:	:		:	i	:	:
		Caste of Transferees.		::	:	Khuttree,	Brahmin, Mahajun,	Total,	Mahajun,	Jat,		Total,	Mahajun, Bajpoot,			Total	Mahajun,		Total,	Mahajun,	Kayeth,	Total,
Districtes.	BR OF COURT.	Portions.	Acres.	::	:	98 =9	:	98 =9	8= 114	: 1	: :	8= 114	28= 782	:::	•	28= 782	1= 171	::	1= 171	2= 43	::	2= 43
- 1	Втокр	Whole Vil- lage.		::	:	:	:	:	:	:	: :	:	: :	:::	:	:	: : :	::	:	:	::	:
lo esseria -	ATE TRANSFERS. BY ORDER OF COURT	Portions.	Acres.	1 39 1 6	2= 45	ı	5= 102	7= 111	22	9 8 8	1 1	24= 562	40= 665 40= 683		81   18	96=1,495	### 	1 = 1	10= 63	l	4= 49 1= 34	8= 115
I	Privat	Whole Vil-		1,394	1,394	:	:	:	3	:	: :	:	: :	:::	:	:	:::	::	:	:	: :	:
		Caste of Transferees.		Dogur, Mahajun,	Total,	Mahajun,	Brahmin,	Total,	ıjun,	Jat, Khuttree		Total,	Mahajun,	Sheikhzada, Afghan, Brahmin,		Total,	Mahajun, Rajpoot, Kayeth,	5	Total,	Mahajun,	Bajpoot,	Total,
	PRIVATETRANGERRS.	Portions.	Acres.	2= 46	2= 45	7= 111		7= 111	24= 562		•	24= 562	95=1,495			95=1,495	10= 63	•	10= 63	8= 116		8= 116
	PRIVAT	Whole Vil- lage.		1=294	1=394	:		:	:			:	:		1	:	i		:	÷	1	:
				i	:	:		:	:			:	:			i	:		:	:		:
	و در در در در در در در در در در در در در	Caste of Transferrers.		Synd,	Total,	Ror,		Total,	Jat,			Total,	Rajpoot,		E	Tenor.	Mahajun,		Total,	Brahmin,		Total,
١	Jis	Pergunn		<b></b>			•				-	MAW.	BEO	HANAH.	L	-	<b>-</b> -			-		

B. Supplement to the Statement showing the effects of alreadion by sale in execution of Decress of Court, or private transfers during the Currency of the past Settlement in the Terseel of Shamles.—(concluded.)

Cate of Transference   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertions   Winde   Pertinos   Winde   Pertions   Winde   Pertions   Winde   Pertinos   Winde   Pertunos   Winde	_	{ 	PRIVAT	PRIVATE TRANSPERS.		Parva	PRIVATE TRANSPERS. BY ORDER OF COURT.	Br ord	ER OF COURT.		<u> </u>	BI OKDER OF COURT.		EXERT PROM TRANSFER.	LANSFER.
Total,	Pergunna Ca Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	l Transferrers.		Portions.	Caste of Transferees.		1 '	Whole Vil- lage.	'	Caste of Transfere		1		    -	'artions,
Total,     30= 103   Synd,       4= 65           Mahajun,             Mahajun,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .	Fakeer, Malee,			Acres.	•		Acres.	111.	Acres	11			4		
Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd,   Synd			•	i		:	i	i			<u>.                                    </u>				
Total 39— 108	Sheikhs		-					908							2,949   = 2,949
1 = 96    Afghae,			-	30 = 108		1.543	30- 103	1-206	1= 6				NO.	-	169- 2,849
Otal,          42=613           14=369           45=269           45=35           45=35	Afghan, Rasen, Tugga, Khutree, Beloch,		-	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	:::	:::::	1 : : : ]		1 1 1 2 8 9	::::	<u> </u>	<u> </u>	1		12 230 3 17 17 10 1,506
Total, 42= 612 42= 612 14= 269 Total, 14= 269 14= 269 Total, 14= 269 14= 269 Total, 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269 14= 269					no,	: :	23 296	: :	: :	ejun,			33		t of rebellion
Torest, \$26=3,276 Total, 2=-737 226=3,276 I-206 60=1,469 Total, I=206 60=1,469 4=2,041 3,736=29,6			•			Ē	42- 619	:					896	_	60- 1,506
255=3,276 Total, 2=-737 226=3,276 1-206 60=1,469 Total, 1=-206 60=1,460 4-2,041	Potter, Moogbul, Bocker,		-	ľ	1:	1::	í	:::	:::	* * *	1				
	GRAND		•	226-3,278	:	2=-737		902-1	60-1,469						736==29,664

A. COLVIN, Sculement Officer.

]

Canal.
9
Profits

12.	Nett gain to the Revenue of the Pergunnah from the influ- ence of the Canal.	Rs. 9,101 0 0	6,024
n.	Portion of decrease attributa- ble to the influence of the Canal.	1	:
.0.	New Jums.	:	
oi.	Former Juma.	:	:
ø;	Number of Villages inju- riously affec- ted by Canal.	:	:
	Portion of in- crease attributa- ble exclusively riously affec- to influence of ted by Canal.	9,101 0 0 Subsequently	modified to Rs. 6,024
wi	Inorease.	:	
zó.	New Juna.	42,905	
•	Former aggregate Juma of these Villages.	43,853 2 3	
86	Area under Canal irriga- tuon.	9,598	
øi.	Number of Villages Canal irrigation. Villages.	88	
1	Pergunnah.	ana.	TT Bac

Note.—There are 52 masoury wells out of work owing to the Canal; allowing 22 acres as the annual amount of irrigation from each well, the deductions from the irrigated area will amount to 1,144 acres, according to the proportion of each kind of soil: upon the balance the difference between dry and wet rates gives the profits due to the Canal.

S. N. MARTIN, Collector.

Statement of descriptions of soil irrigated and unirrigated areas.

LAND NOT ASSESSABLE.		Recently aban- Culturable. Waste. Rent Free		10,100   7,994   6,619   5,127   9,242   6,389   5,468   By wells.   376   158   415   326     By wells.   103   103   103   103   103   104   104   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   105   1	
KREA.		Irrigation.	By Canal. By wells.	10,100 By wells. 9,468 By other means. 638 683 By wells. 480 By other means. 103	
MALGOOZAREE AREA.	CULTIVATED AREA	i	Bhoor. By	Irrigated by wells.  35  By other means.  17  By Canals. 69  Unirrigated. 197  28  Irrigated by wells. 17  By other means. 18	
	Cultiv		Dakur.	3,948 Irrigated by wells. 520 By other means. 265 By Canals. 2,108 Unirrigated. 1,055 Irrigated by wells. 49 By other means. 8y Canals. 389 Canals.	Unirrigated.
		•	Kouslee.	16,423 Irrigated by wells. 4,695 By other means. 249 By Canals. 4,931 Unirrigated. 6,648 780 Irrigated by wells. 250 By other means. 30 By Canals.	Unirrigated.
			Messun	7,003 Irrigated by wells. 4,318 By other means. 101 By Canals. 2,491 Unirrigated. 94 Mafee Village, 3. 271 Irrigated by wells. 181 By other means. By Canals. 67	Unirrigated.
-	цво	un	Perg	Трапа Вроман.	_

No. II.

Comparative Statement of cultivators with and without right of occupancy, and of cultivating proprietors.

Name of Pergunnah,	Year.	Cultivators having right of occupancy.	Cultivators have amount of land ing right of held by them in occupancy.	Average of Cultivation. Acres.	Tenant-at-Will,	Amount of land cultivated by them. Acres.	Average of cultivation. Acres.	Cultivating proprietors.	Land cultivated by them. Acres.	Average of Cultivation, Acres.
Thana Bhowan,	1,840	170	936	A. R. P. 5 2 1	2,453	11,330	A. R. P.	2,244	17,463	A. R. P.
	1,860	535	2,045	3 29	2,552	11,495	4 1 34	1,322	14,152	10 1 31
	~	Deduct balance   Deduct balance. 7 Villages.	Deduct balance. 7 Villages.		Deduct balance. 7 Villages.	Deduct balance. 7 Villages.		Deduct balance. 7 Villages.	Deduct balance. 7 Villages.	
		22=513	163=1,882		34=2,418	1,171=10,324	-	57=1,265	989=13,213	
Decrease,	:	:	•	1 3 14	36	1,006	0 1 154	979	4,250	:
Increase,	:	343	946	:	:	:	:	:	:	78 78

Statement of Villages paying rents in money and in kind.

Name of Pergunnah.	Total Number of Villages (Mehal).	Total number of whole villages in which rent in money has been fixed instead of that in kind.	Whole villages in which money rent was previously prevailing.	Total number of whole Whole villages in villages in which rent which money rent in money has been was previously fixed instead of that prevailing.	Cultivators in these villages paying rent in money.	Cultivators in these villages paying rent in money.	Вепаткя.
Thana Bhowan,	61	2=16	1=11	56	9,565	967	The villages entered in Column 2, but exclud-
	Khalsa.	Cultivators.	Cultivators.	6 Villages in which only rent in kind prevails.			ed from Commiss o, s, o are occupied cumery by cultivating proprietors.
	59	1 Bagh Bungla.	Yanushpore.	40 Villages in which both			
	Resumed Maafee and Maafee 2.	2 Jemalpore.		BOLIS OI LEIL PIEVALB.			•

Statement of Pukka Masonry wells used for irrigation.

		_				
				Dhunees or Coriander.	-	:
		٠.		Mattra or Peas.	7	:
4		TIN, Collector.			80	i
of rej		Tin		Среспяр	4	:
out		[A B		:Karak:	H	:
at are	168	<b>X</b>		Tursh.	17	:
Wells that are out of repair.		S. N. Martin, Cous	RUBBEE	Миноот.	67	:
We				Wheat and Gram.	\$	i
		•	<u>.</u>	Wheat and Barley.	22	
				Gram.	689	क
<b>.</b>			<b>.</b>	Barley.	<b>6</b> 03	#
Masonry wells at the present Settlement.				Wheat,	13,180	48}
int Be				Kangaee.	ន	:
prese	267	·		Kodoon and Shamakh.	8	:
the	29			Sunee or Hemp.		:
elle at				Moong.	တ	:
LTY W.				Торяссо.		<u>:</u>
бавоп				Toriya	814	<del>-</del>
A		٠٠		Indigo.	25	· -#
		No.		Маккее.	488 1,009	*
nent.		. •	İ	.ewbarM		## T
ettler			Китевет.	Vegetablea.	276	
last S				даламо-	168	-40
the	697			TKL		:
lls at			KHU	Bajrah.	25.	~
ry we	}			Mot.	446	#
Masoury wells at the last Settlement				.buroO	1,888	ю
	<u> </u>			.18Wol	886	•
	Í			Chuhora Moonjee.	2,161	<b></b>
	i			Dhan,	206	<b>a</b>
runna <b>h.</b>	-			Суптее.	2,448	•
Name of Pergunnah.	:			Baree or Cotton.	1,087	<b>+</b>
Name	a,			Sugar-cane.	37,381 1,84 <del>4</del>	4
	Thana Bhowan,			Cultivated Area in Acres.	\$7,381	001
	Thana			Mame of Pergunnah.		Тъ

S. N. MARTIN, Collector.

The lower line shows the percentage of each crop.

Pergunnah.	Zemindaree.	Putteedaree.		Bhyachara.	Total.
Boorhana.	Jowiah.	Attalee, Ookaolee, Uteyrna Aleepoor, Bitaoda, Burkutta Moglan, Bowanah, Buhsana, Chundheree, Roypoor Uteyrna, Rookunpoor, Reyaolee Nugla, Suraee, Sultanpoor, Shahpoor Busee, Kootubpoor, Kooralsee, Gurhmulpoor, Lohsana, Mundawolee, Mindkalee, Nusseerpoor, Nugwa,	000 000 000 000 000 000 000 000 000 00	Etawa. Burkutta Rowa. Buraoda. Bugeeana. Qusbeh Boorhana. Behloulpoor. Tanda Moosra. Todah. Hubeebpoor Seekree. Hosseinabad. Hosseinpoor. Khusurpoor. Russoolpoor Dubhairee. Sutheyree. Shah Dubbur. Koorawa. Koorthul. Khurur. Khairee Ghunee. Munwara. Wailee.	
		.^			
Total,	. 1	 23		21	

Statement showing the amount of Transfers for Pergunnah Boorhana.

FB Bes.	Acres.		Acres. 40,685	8,536 Acres confis- cated for re- bellion
Exempt Prom Transfers.	Portions.		Acres. Acres. 3,218=36,0u7 40,686	
Exeme	Whole Villages.	6 Vil- lages.	Acres. 4,678	
	Value.		4 72,187 7 6	
Toral	Jume		10,435 1	
•			6,677	
Ę	Portions.		418	
	Whole Villages.		:	
URE.	.Value.		347 9 0	
% %			3,026 14 10 17,247	
Тваничева вт овряв от Сопит.	-amme		3,036 14	
MBFERS	Acres.		1,838	
Taa	Portions.		. %	
	Whole Villages.		;	
·a	Value.		64,889 14	
Privats Trampers	-suum		7,398 2 6	
PRIVA	Acres.		8,88,8	
	Portions.		843	•
	Whole Villages.		Ĩ	
	Jamme		68,900 3 6	
	Ares in Acres.		Acres. 49,698	
	Number of Villages.		<b>\$</b>	
	Name of Pergunnah.		anadbo	æ

Independent of the confiscated area, the transfers amount to nearly one-ninth of the whole area of the Pergunnah. This is not as much as I have observed in other Pergunnahs.

S. N. MARTIN,

Collector.

( 98 )

Supplement to the Statement showing the effects of alteration by sale in execution of decrees of Court, or by private transfer, during the currency of the Settlement in the

EXEMPT PROM TRANSFER. 774-10,469 774-10,469 1014 = 816 918- 4,101 Portions. Acres. : ŧ Whole Village. 8-2,970 \$=1,409 3-2,970 84,11 : ŧ BY ORDER OF COURT. 10 P 1111 10=166 11-768 10-136 Portions. Acres. Whole VII-: : : . : 1::1 : ÷ ; ŧ 1::: : : : : : Caste of Transferee. Total, Total, Total, Tugga, Mahajun, Kumboh, Bohrah, Rajpoot, Mahajen, Mahajun, Mundhul, 9 4 4 166 136 PRIVATE TRANSPERS. BT ORDER OF COURT. 11= 762 166 10= 136 Tehseel of Bodhanah. Portions. Acres. 1 100 <u>!</u> <u></u> Whole Vil-inge. : = I 1 \$ 23 572 12 211 1 4 50 3834-20 20 - 00 20 20 - 00 50 20 00 00 00 00 00 00 **7**64 ... | 103=1,003 £0= 841 Portions. Acres. E 2 1 1 1 E 000 Whole Ville ŧ :::: : ::::: 1::::::: Casta of T _____core. Total, Total, Total, Afghan, Tugga, Mahajun, Kumboh, Sheikh, Khutree, Rafpoot, Mahajun, Bhat, Brahmin, Tugga, Kawa, Mahajun, Potter, Brahusia, PRIVATE TRANSFERM Portions. Whole Vil-lage. i Ē Ĭ : • Ξ Caste of Transferrer. Total, Total, Total, Afghan, Rajpoot, Tugga, Pergumah.

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. \$50= 1,929	230= 1,929	<b>7</b> 99 =09	6)= 654	890= 9,079	890= 9,079	134= 476	134= 476	78= 1,451	78= 1,451	62= 485	62= 485	1= 51	1= 51	368= 1,376	358= 1,376
l= 299	1= 299	:	1	:	:	<b>:</b>		:	:	•	:	:	:	:	
1= 18 6=116 1= 7	7=134	1= 5 3=128	4=183	25-323 1-13	26=384		:	3 = 20 8 = 20	<b>6= 80</b>	3=: 21	3= 27	:	:	1= 1	1= 7
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Ruwa, Mabajun, Bohrah,	Total,	Mahajun, Moghul,	Total,	Ját, Mahajan, Brahmin,	Total,	i.	:	Brahmin, Mabajun,	Total,	Mahajun,	Total,	•	I	Sheikh,	Total,
	134	183	8	384	788			88	88	řá	22			7	1
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Ruwa, Mabajun,	Total,	Rajpoot, Moghul, Mahajun,	Total,	Jåt, Mahajun, Brahmin, Bohrah, Sheikh,	Total,	Brahmin, Ruwa, Ját, Sance, Afghan or Pathan,	Total,	Brahmin, Goojur,	Total,	Bhat, Mahajun, Sheikh,	Total,	Kumbob, Khutree, Mahajun,	Total,	Mahajun, Acharuj,	Total,
10= 115	116	80	20	800	808	83	283	31	31	8	8	178	178	12	13
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Buwa,	Total,	Moghul,	Total,	Jât,	Total,	Mahsjan,	Total,	Goojur,	Total,	Bhat,	Total,	Kumboh,	Total,	Sheikh,	Total,
BodaA						25						-			

Supplement to the Statement showing the effects of alteration by sale in execution of decrees of Court, or by private transfer, during the ourrency of the Settlement in the Teliseel of Bodhanah.—(concluded.)

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Portions.	Acres	7 = 8	66 =69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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REMARKS.—The largest amount of transfers has been among the Rajpoots, next to them the Jats. The latter are a very numerous proprietary body in this pergunnah, altogether 537 shareholders of different castes have effected transfers.

	1 2	Number of Villages irrigated by Canal.		Boorhana,
SS	8	Area under Ca- nal irrigation.		1 Acres,
atement showing	*	Former aggre- gate Jumms of these vil-	æ	200 6,992
g amount of pr	8	lages.	B&.	5,986
ofts in the P	9	Incresse.		:
Statement showing amount of profits in the Pergunnah Boorhana attributable to the Eastern Jumna Canal.	2	Portion of in- crease attribu- table excin- sively to infia- ence of Canal.	. Ra	200
a attributable to	••	Mumber of vil- lages injuri- ously affected by Canal.		:
the Eastern	6	Former Jumma.		:
Jumna Ca	10	усж Јашиз-		:
ral.	ı	eb to notion of decreases the street of the in- eds to essent the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street		:
	12	Met gain to the Revenue of the Pergunnah from the infu- ence of Canals.	Bs.	018

S. N. MARTIN, Collector.	
	rrigated and unirrigated areas.
	of Soil, i
	f Descriptions
	Statement o

•			Total Malgoozarbe area.	ZAREE AREA.						LANI	Land not absessable.
•			Total cultivated area in Acres.	Acres.				\$no	əjq		
Name of Pergunnah.					Total of	Total of irrigated land.	-lini	basi awon aoits	nati		
-	Messun.	Roslee,	Dakur.	Bhoor,	By Canals, &c.	By Wells.	nu to fatoT bual betag	Total of cently the	Total of cr	.etaeW	Rent-free,
Boorhans,	9,713	23,840	683	1,067	200	18,318	16,764	1,464	5,067	8,423	8
	Irrigated.	Irrigated.	Irrigated.	Irrigated.		18,618	36,282				
	By Wells. By Canals, &c.	By Wells. By Canals, &c. By Wells. By Canals, &c.	-				,				
	9,392 32	8,713 168	182	31							
	Unirrigated,	Unirrigated.	Unirrigated.	Unirrigated.	•		-				
	289	14,959	480	1,036	<del>**</del>			•			
		-			•		-	_		-	

Remarks.-. 'Roslee' is the prevailing kind of soil. The irrigated and unirrigated areas are in the proportion of

S. N. MARTIN, Collector.

S. N. MARTIN, Collector.

Remarks,	As might have been expected the numbers of califivators	of both kinds have increased while the average area of in the case of the hereditary tenants (* mowroosee ''), the class most obnoxious to the	zemindars. There has been a very stady battle between the remindars and tenans as to the word heredisary. The former would like to have nothing but tenants at have nothing but tenants at have nothing but tenants at	wil, the latter contented their they were little zemindareed. The nikasses for the last twelve years decided the day,	
Average of cultivation in acres.	A B P.	1 31	0 1 0	-	
Land cultivated by them in acres.	17,943	17,926	•		
Cultivating proprietors in acres.	998 6	\$,439	1	170	
Average of enitivation in acres.	A. 13. 15.	64 65	0 7	1	
Amount of land cultivated by them in scres.	10,874	13,467	Ĭ.	86 80 80 80	
Tepants-at-will in seres.	10- 2- 6- 6-1	4,724	:	1,948	
Average of coldivation in acres.	A. B. P.		e/ 63	:	<u> </u>
Amount of land held by them in acres.	9986	068°c		1,021	
Cultivators having right of occupancy.	999	1,688		1,038	· · · · · · · · · · · · · · · · · · ·
Year,	1840,	1,062,	<b>Дестева</b> с,	Increase,	

Comparative Stutement of Cultivators with and without right of Occupancy, and of cultivating Proprietors, Pergunnah Boorhand.

Statement of Villages paying rents in money and in kind.

,		( 101
Remarks,		S. N. MARTIN, Collector.
Cultivators paying rent in money.	3,851	X X
Cultivators paying rent in kind.	2,920	
Villages in which rent in kind prevails.	42 Villages, and 6,271 Cultivators. 4 Villages in which only rent in kind prevalls and 624 Cultivators. 38 Villages in which both sorts of rent prevall and. 5,647 Cultivators, i.e.	2,296 kind. 3,361 money.
whole Villages in which money rent previously pre-	. લ	
Total number of Villages in which rent in Willages.  Villages, instead of that in kind.	:	
Total number of Villagea.	4 4	
Name of Pergunnah.	Boorliana,	

•

Statement of Pukka Masonry Wells used for Irrigation.

Remarks.	Increase of 24 since the last Settlement, most of the irrigation is carried on by kutcha wells which are not included in this return. These kutcha wells are easily dug in this Pergunnah and last a few years.
Wells that are out of repairs.	. 75
Masonry wells at the present Settlement.	186
Pukka wells at the last Settlement.	186
	:
Name of Pergunnah.	
	Boorhans,

Pergunnah Boorhana.

	Total of Rubbee.	13,429 Acres.	_
	Wheat and Gram.	10	
	.70088DM	20	
	•aoinO	£	
	Korur.	10 69	_
	.dairoT	54 -	
ند	Gojee.		
RUBBEE.	Indigo.	1	
æ	Fâlez (i.e., melons).	10	
	Vegetables.	\$	
	Tobacco.	, s	
	Fallow land.	4,391	_
	Gram.	1,034	
	Barley.	1 - 1 4	
	Wheat		
	Total of Kharreet.	46 21,853 7,170	
	Kungnee.	9	
	Urhur (Dal).	98 +	_
	Moong.		-
	Mote.	060°s	
	Kunwara.	678	_
	-swbarM	10 40	_
	Bajra.	219	_
	Jam.	4,906	
2	Moonjee (Rice).	8 -	
KHURRERF.	Samuk.		
×	Dhan (Rice).	<b>5</b>	i
	Carrot.		
	Срактее,	5	_
	-Durad.	. 878 %	
	Indian corn or Mukkee.	3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.	
	Cotton	1,280 ,	_
	Sugar-cane recently plant- ed and cut the follow- ing year.		
	Биgат-саде.	1,805	
baal b	Total amount of cultivated in acres.	35,282	
	.дапплар.	Boorhana	

The chief crop in the Khurreef is Churree and in the Rubbee Wheat,

S. N. MARTIN, Offg. Collector.

## Statement showing the Tenures on which the Mehals of Moozuffernuggur are held.

Pergunnah.	Zemindaree.	Putteedaree.	Bhyachara.	Total.
Shikarpore.	Huzzoor Nuggur. Shahpoor Zoonardae Chuk Sheopoor Alumpoor.	Alahyarpoor. Jonchoura. Buhramgurh alias Guffoorgurh. Pulree. Pulra. Poor Balian. Poora. Jeetpoor. Jewnah. Chandpoor. Khanpoor. Khoobanpoor, Dinkurpoor. Deollehra. Duttayun, Dhundaolee Afghanan. Shahjooddee. Sudder-ood-deennuggur. Sohunjnee Mehal 8 Biswa. Kootba. Alumpoor. Kumalpoor. Kheree Soondian. Mundaolee. Morkohoka. Nizampoor. Hulolee.	Audumpoor, Alahyarpoor, Puttee Moobarikpoor Bussee. Bhoura Khoord. Busdhara. Buhadurpoor. Bhoura Kulan. Papurholee. Duhul. Russoolpoor Jatan. Saotoo. Sissoulee. Sularoo. Shikarpoor. Shoron Puttee Peer Bux. Ditto Puttee Hursuhay. Ditto Puttee Sheosing. Sheopoor. Sohunjnee Mehal, 12 Biswa. Alawulpoor. Oomurpoor. Kakra. Kitaso. Kurondee. Kusserwa. Kulyanpoor. Gurhee Nowabad. Goelab. Moobarikpoor. Muhmudpoor Raising. Muhmudpoor Zoonardar. Moondhpoor.	
Total,	-8	27	32	62

S. N. MARTIN, Collector.

		<del></del>		
	Remarks.		267 acres confiscated for rebellion.	·
R.S.	Астев.		47,063	
Exempt prom Tramspers.	Portions.		6460= 41,211 acres.	
NA CA	Whole Villages.	•	7= 5,852 86res	
	Увіпе.	Bs. s. p.	1,33,151 6 3	
Total.	.smmrf	В. а. р.	16,485 25,803 13 8	
·	Acres.			
	Portions.	· · · · · · · · · · · · · · · · · · ·	819	
	Whole Villages.			
r <del>i</del>		ci.	G G	
Cour	Value.	Be.	8 25,285	
DER O		ď.	ω . «૧	
INSPERS BY ORDER OF COURT.	- smmul	Be.	7,461	
RANGFES	.вэтэА	,	2,067	1
Ta	Portions.		213	
	Whole Vikages.		i	
	√ајие.	Ba. s. p.	1,07,865 2 6	
FEBS.		#4 	9 1,07	
BAME	parrows a	ei ei		
Private Transfers.	Jamma	Rs.	18,389 10	•
PR	Acres.		606 11,418	
	Portions.		909	
<b>i</b> !	segalli V. slof W			
	.smmv.	Rs. s. p.	0	
	Area in acres.	<b>P4</b>	63,805 10,662	
.89%	siliv to redmnV		. 8	
.daa	Name of Pergun		Shikarpoor.	

Statement showing the amount of transfers for Pergunnah Shikarpoor.

Supplement to the Statement showing the effects of alienation by sale in execution of Decrees of Court, or by private Transfer, during the currency of the Settlement in the Tehseel of Boorhana.

Supplement to the Statement showing the effects of alienation by sale in execution of Decrees of Court, or by private Transfer, during the currency of the Settlement in the Tehselee of Boorhana.—(concluded.)

l						· .	<u> </u>										
Exempt FROM TRANSFERS.	Portions.	Acres.	77 = 1,666		77 = 1,655	3,964 = 25,177											8,964 = 25,177
Ехви	Whole village.	Acres.	-		:	1 = 105									·		1 = 105
Br Order of Court.	Portions.	Астев.	6 = 122		5 = 122	40 = 723	68 = 2,092		1 = 21	20 = 165	] = ]	6 = 42	1 = 32				139 = 8,084
Br OR	Whole vil-		:		:	:	:	:	:	:	i	:	:				:
		`.	Ē		:	:	ŧ	:	i	:	:	:	i				:
	Caste of Transferees.		Rajpoot,		Total,	Jat,	Mahajun,	Brahmin,	Afghan,	Beshora,	Tugga,	Sheikhzada,	Rajpoot,				Total,
ORR OF COURT.	Portions.	Асгев.	5 = 122		5 = 128	189 = 3,084					•	•					189 =3,084
Br or	Whole vil-		:		:	:											:
PRIVATE TRANSPERS. BY OEDER OF COURT.	Portions.	Acres.	2 = 109	6 = 142	8 = 251	222 = 3,186	173 = 2,648	10 = 265	6	5 = 121	11 = 117	2 #	1 = 1	5 == 62	] = 1	2 = 113	448 =6,517
PRIVA	Whole vil-		:	:	:	:	;	:	:	:	:	:	;	:	:	:	:
	Caste of Transferees.		Rajpoot,	Brahmin,	Total,	Jat,	Mahajun,	Brahmin,	Roghungur,	Afghan,	Behors,	Goldsmith,	Syud,	Goshaeen,	Tugga,	Sheikhzada,	Total,
Private Transfers.	Portions.	, Acres.	8 = 251		8 = 25}	443 =6,517											448 =6,517
PRIVAT	Whole vil-		:	-	:	:											:
			:		:	:			··							-	:
	Caste of Transferers.		Rajpoot,		Total,	Jat,											Total,
чр.	Poor.—(concluded.)																

						·				****	acres rebel-
126 = 879	125 = 879	193 == 609	193 = 609	111 = 908	111 902	8 II 8	9 = 37	:	42 == 187		5,460 = 41,311 = 257 acres conficated for rebel- lion.
:	:	:	:	:	:	::	:	:		111	7 = 5,852
1 = 168	1=168	:	:	   :	:	::	:	:	į	: <b>:</b> :	213 =5,067
:	:	:	:	:	:	::	:	:		: : :	!:
:	:		i		:		:				•
<b>. 4</b> 1	Total,	:	Total,	i	. Total,	<b>!</b> :	Total,	i	;	: : :	Total,
Mahajun,			•								
1 168	1 = 168	:	:	:	:	::		:	•	 : : :	213 =5,067
:	:	:	:	:	:	::	:	1		:::	:
150 816 478 4 1 1	456	44 68 16	129	200	10	<b>748</b>	6	-	-	=	814,
8 2 4 2 1 8	30 =1,456	1111	17 ==	999	_ 2		2	64	<b>8</b>	] : 01	606 =11,418
::1::1:	:	111,1	፧	: <b>: :</b>	i	:::	:	:	:	::	:
	:	::::	:	1::	:	:::	:	:	:	i	:
Rajpoot, Mahajun, Murhul, Rayeth, Behora, Brahmin, Jat,	Total,	Sheikh, Behora, Mabajun, Kaeth,	Total,	Kayeth, Mahajun, Behors,	Total,	Mahajun, Syud, Behora,	Total,	Mahajup,	Mahajun,	Mahajun,	Total,
30 =1,486	30 =1,456	17=129	17 = 129	7 = 10	7 = 10	1	;	2 = 1	- I	= :	606=11,418
:	:	:	:	:		::	:	:	:	: : :	<b>:</b>
:	•	:	:	:	:	::	:	~~	\	:::	<u>.</u>
Mahajun,	Total,	Sheikhzads,	Total,	Kaeth,	Total,	Fakeer, Synd,	Total,	Barber, (Huijam.)	Dhobee, Brahmin	Peerrada, Nuzzool,	Total,
-AEMIRS				,			-;-			•	]

Supplement to the Statement showing the effects of alienation by sale in execution of Decrees of Court, or by private Transfer, during the currency of the Settlement in the Tehseelee of Boorhana.—(concluded.)

l	<del>,                                     </del>					<del></del>	·										<del></del>
EXEMPT FROM TRANSFERS.	Portions.	Acres.	77 = 1,656		77 == 1,666	3,964 = 25,177											3,964 = 25,177
Ехви	Whole village.	Acres.			:	1 = 105											1 = 106
BY ORDER OF COURT.	Portions.	Acres.	6 = 122		5 = 122	40 = 723	68 =2,092	<b>8</b>	1 = 21	20 = 165	1 11	6 = 42	1 = 32		,		139 = 3,084
Br Og	Whole vil-		:		:	:	:	:	:	:	i	:	i				:
		`.	:		:	:	:	:	:	i	:	:	:				:
	Caste of Transferees.		Rajpoot,		Total,	Jat,	Mahajun,	Brahmin,	Afghan,	Beshors,	Tugga,	Sheikhzada,	Rajpoot,				Total,
ва ог Сопат.	Portions.	Асгев.	5 = 122		5 = 129	139 = 3,084					•	• -			-		189 == 3,084
Br ord	Whole vil-		:		:	:											:
PRIVATE TRANSPERS. BY ORDER OF COURT.	Portions.	Acres.	2 = 109	6 = 142	8 = 251	222 = 3,186	173 = 2,648	10 = 265	6	5 = 121	111 = 111	2 = 4	1 = 1	5 = 62	] = ]	2 = 113	448 =6,517
Privat	Whole vil- lages.		:	:	i	:	:	:	:	:	:	:	:	:	:	:	:
			i	i	:	:	:	:	i	:	:	:	:	i	:	i	<u></u> '
	Caste of Transferees.		Rajpoot,	Brahmin,	Total,	Jat,	Mahajun,	Brahmin,	Roghungur,	Afghan,	Behors,	Goldsmith,	Synd,	Goshaeen,	Tugga,	Sheikhzada,	Total,
Private Transfers.	Portions.	, Acres.	8 = 251		8 = 25)	443 =6,617											448 =6,517
PRIVA	Whole vil-		:		:	:											:
			:		i	:										****	:
	Caste of Transferers.		Rajpoot,		Total,	Jat,											Total,
-(concluded.) Pergunnah,								woo)-	F000E								

		<del></del>	<u> </u>	1	<u> </u>	,	-	<del>-</del>			
126 = 879	125 == 879	193 == 609	193 = 609	111 = 908	111 903		9 = 87	:	42 = 187	10 1 23	5,460 = 41,211 = 257 acres confiscated for rebel- lion.
:	:	:	:	:	:	: :	:	:	•	:::	7 = 5,853
1 == 168	1=168	i	:	:	:	::	i	:		: : <b>!</b>	213 =5,067
:	:	:	:	i	:	::	:	:		: : :	
:	:		:		:		:				:
ď	Total,	:	Total,	I	. Total,	1:	Total,	i	;	:::	Total,
Mahajun,			•								
1 168	1 = 168	:		:	:	::		:	:	 : : :	213 =5,067
:	:	:	:		:	::		1		:::	:
3 = 150 13 = 150 1 = 1 = 478 4 = 4 4 1 = 1 3 = 1 = 1	30 =1,456	5 # 47 7 # 68 8 # 16	17 = 129	@ @ B	7 = 10	1 = 7 1 = 4 1 = 6	2 = 9	84 		: : : : : : : : : : : : : : : : : : :	606 =11,418
:::::::	:	111,1	:	:::	:	:::	:	:	:	::	:
	:	::::	:	1::	:	:::	:	:	:	:	:
Rajpoot, Mahajun, Murhul, Kayeth, Behora, Brahmin, Jat,	Total,	Sheikh, Behora, Mahajun, Kaeth,	Total,	Kayeth, Mahajun, Behora,	Total,	Mahajun, Syud, Behora,	Total,	Mahajun,	Mahajun,	Mahajun,	Total,
30 =1,456	30 =1,456	17=129	17 = 129	7 = 10	7 = 10	2 H 2	3	2 = 1	3 == 1	: = : : = :	606=11,418
:	:	:	:	:	:	::	:	:	:	:::	:
•	:	:	:	:	:	::	:	~~	` :	· ': :	:
Mahajun,	Total,	Sheikhzada,	Total,	Kaeth,	Total,	Fakeer, Synd,	Total,	Barber,	Dhobee, Brahmin	Peerzada, Nuzzool,	Total,
-ARMIRS				, ——			-;-			•	

Statement showing amount of profits in the Pergunnah Shikarpoor attributable to the Eastern Junna Canal.

	12	Portion of decrease attributable to the influence ence of the Canal.	Rs. s. p. 2,277 0 0	S. N. MABTIN, Collector.
	111	Portion of decrease attributable to the influence of the Canal.	1	
3	2	New Jum-	:	
	6	Former Jumms.	:	
e commercial from the contract of	80	Number of Villages injuriously effected by Canal.	i	1
	1	Portion of increase attributable exclusively injuriously effected to influence of Canal. by Canal.	Bs. s. p. 2,277 0 0	
J (	9	Increase.	:	
	10	New Jumma.	25,986	
	*	Number of vil- Area under Former aggregate lages irrigated Canal irri- Jumma of these by Canal.	Rs. s. p. 29,646 8 0	
	ရာ	Area under Canal irri- gation.	1,865	
	87	Number of villages irrigated by Canal.	æ	
	1	Pergun- nah.	TooqTalidS	

Statement of descriptions of Soil, irrigated and unirrigated Areas.

			L	TOTAL MALGO	TOTAL MALGOUZAREE AREA.					LAND NOT ASSESSABLE.	NOT ABLE.	
Nombet Do			TOTAL CUI	TOTAL CULPIVATED AREA IN ACRES.	ACRES.			Total of				
gunnah.					Total of irrigated land.	gated land.		cently c	rotal of	Waste.	Rent-	Kemarks.
	Messun.	Roslee.	Dakur.	Bhoor.	By Canals, &c.	By Wells.	irrigated land, of cultiva-	of cultiva- tion.	land.	:		
Shikarpoor,	13,478	30,794	1,044	8,171	1,865	19,843	972,79	1,216	4,707	8,477	1,128	
	Irrigated.	Irrigated.	Irrigated.	Irrigated.	21,203	203	48,487					
	By By Wells. Canals.	By By By By By By By By By By By By By B	By By Wells. Canals.	By By Wells. Canals.								
	12,394 679	6,728 1,076	011 291	24								
	Unirrigated.	Unirrigated.	Unirrigated.	Unirrigated.								
	406	22,990	167	3,117								

S. N. MARTIN, Collector.

Comparative Statement of Cultivators with and without right of Occupancy, and of cultivating Proprietors, Pergunnah Shikarpoor.

Remarks.					
Average of cultivation in acres.	A. r. p.	6 1 12	5 3 14	0 1 38	:
Amount of land Average of Cultivating procultivated by cultivation prietors in acres. by them in acres. in acres.		25,100	25,796	:	969
Cultivating proprietors in acres.		3,967	4,420	:	. 453
Average of cultivation in acres.	A. r. p.	3 3 25	2 2 16	1 1 10	:
Amount of land cultivated by them in acres.	,	13,567	15,195	1	1,628
= 1		8,475	5,864	:	2,388
Average of cultivation in acres.	A. r. p.	6 1 14	8	33	:
Amount of land held by them in acres.		6,527	7,496	:	696
Cultivators have a mount of land Average of Tenants-at-will be them cultivation in acree.		1,030	2,668	:	1,638
				:	:
· Year,		1840,	1860,	Decrease,	Increase,

Statement of Villages paying Rents in money and in kind.

t in Cultivators pay- Cultivators paying Remarks.	only 5,708 2,684 lia. both
Villages in which rent in kind prevails.	60 Villages, 5 Villages in which only rent in kind prevails. 55 Villages in which both sorts of rent prevail.
Whole villages in which money rents as previously prevailed.	T.
Total number of whole villages in which rent in of villages. instead of that in kind.	1
Total number of villages.	g .
Name of Pergunnah.	Shikarpoor,

S. N. MARTIN,

S. N. MARTIN, Collector.

Statement showing the various Crops sown at the time of Measurement, Pergunnah Shikarpoor.

		•	•
	.latoT	25,102	Ž
	Runwar-Bajra.	15	:
	Mote-Jowar.	<u>8</u>	<u>:                                    </u>
	Mote-Bajra.		<del>: -</del>
	Moong.		<del></del>
	Mote.	5,434	=
	Кип жага.	741	#
	Mundws.	128	**
	Вяјтв.	274	-den
	Jowar.	9,135 274	<b></b>
E E	M oonjee.	188	<b>+•</b>
Книвкер.	Sanwuk.	390	
Kī	-пвид		<b>*</b> 
	Срората	44	:
,	Sugar-cane recently planted, and cut the following year.	417	_
	Oorud,	1,304 1,660	Š
	Ватее.	1,304	9
	<b>М</b> лккее.	1,02	<u>ਨ੍ਹਾਂ</u>
	Сритгее.	!	74
	Виgar-сапе.	3,65	\$ <u>.</u>
	Total.		84
	Kungnee.		<u>:                                    </u>
	Kurrur.		<u>:</u>
•	Mussoor.		<u>:</u>
	Payaz (Onion).	28	:
	Gram and Barley.		:
	Mutter.	8	i
	Torish.		:
Ņ.	Gojee.	7.	*
388	Gajur.		<u>:</u>
RUBBEE	Vegetablea. Fâlez.	2 2	<u>:</u>
			<del>-</del>
	Торяссо.		:
	Fallow land.	12,6	98
	Gram.	335	78+
	Barley.		6
	Wheat	<u></u>	61
betavi	Total amount of culti land in acres.	48,487	9
	- Рег <b>g</b> ппва <b>д</b> ,	ikarpoor.	as

Statement of Pukka Masonry Wells used for Irrigation.

Remarks.	-
Wells that are out of repair.	285
Masonry wells at the present Settle- ment.	422
Pukka wells at the last Settlement.	339
Name of Pergunnsh.	Shikarpoor,

Statement showing amount of profits in the Pergunnah of Bugra attributable to the Eastern Junna Canal.

12.	Net gain to the revenue of the pergunnah from the influence of the canal.		
ii.	Portion of decrease attri- butable to the influence of the canal.	ı	
10.	New jumma.	:	
ó	Former jumms.	:	
ø	No. of villages in- juriously affected by canal.	:	
7.	Portion of increase attributable exclu- sively to influence of canal.	* 3,227	
9	Increase.	618	
بعد	New jumma.	21,520	
4	Former aggregate jumna of these	21,002	
တ်	Area in acres under canal irrigation.	4,880	
ď	No. of villages Area in acres Former agirerated by under canal ma of these irrigation.	15	
i	Рег <i>gunna</i> h.	Bugra,	

* Second revised Estimates.

The increase in column 7 is derived from the difference between the irrigated and unirrigated rates of the fifteen mouzahs. Wells have entirely fallen into disuse in these estates, so that were it not for the Canal the assessment would for the greater part have been computed at unirrigated rates, and there would then have been a reduction on the old jumma according to the half asset principle. I have, however, allowed 22 acres for each well with one run, 44 acres for wells with two runs, and so on, as the average area irrigable, after deducting this the balance may fairly be considered attributable to the canal.

## S. N. MARTIN,

Pergunnah	Zemindaree.	Putteedaree.	Bhyachara.	Total
Bugra.	Ameernuggur Puttee, Bukhtawur Sing. Do. Puttee Shumsher Khan. Bazeedpoor. Bugra Puttee, Seetul Bahadur. Dhunsainee. Dhowlree. Secunderpoor. Shahpoor. Tahurpoor. Zufferpoor. Qumer Oodeennuggur. Kazee Khaira. Muksoodpoor Brahminan,	Atalee. Burwala. Boodeena Khoord. Bhowapoor. Peepulhaira. Jagahairee. Jessowee. Jullalpoor. Chattaila. Hydernuggur. Doorgunpoor. Dhindaolee. Sanjuk. Soujnee. Zufferpoor Puttee, Shumsher Khan. Aleepoora Khoord. Aleepoora Kulan. Kanounee. Kabeerpoor. Kurwara. Khutawla. Khairee Doodadharee. Goojurhairee. Ludwa. Lakhan. Nirmanee. Nurotumpoor. Nusseerpoor. Nowada.	Bugra Puttee, Awan. Do. Puttee, Toorkman. Do. Puttee, Chukmaafee. De. Puttee, Moradpoora. Boodeena Kulan. Peemna. Taolee. Titavee. Chirowlee. Dhowlree Puttee, Dehkana. Sydpoora. Shumaspoor. Salakhairee. Kifayet poor. Koothee. Khurunja. Lalookhairee. Luburda. Mohummudpoor. Mandun. Muksoodpoor Jatun. Mokundpoor. Mundee. Nirmana. Nugla Pithoura. Noonakhaira. Hursowlee Puttee, Anwur. Do. Puttee, Bubroo. Do. Puttee, Bahadur. Do. Puttee, Bahadur. Do. Puttee, Hurdyal.	
Total,	14	29	82	75

Statement of descriptions of soil, irrigated and unirrigated areas in acres.

		Remarks.		The unirigated area considerably exceeds the irrigated	area. What little there is to admire in this Pergunnah is due to the industry of that admirable community, the industrious Jats, who appear to have settled down in this Per-	gunnan irom a very ancient date.	
LAND NOT ASSESS-			Rent-free,	639			
LAND NO	.972.8 <u>W</u>		6,363		·		
	Total of culturable land.		4,875				
	Total of land recently thrown out of cultiva-		2,239		<u>'</u>		
		-tagi	Total of univreed land.	23,142			
		irrigated id.	Ву жеіів.	14,016			
A B B A.		Total of irrigated land.	By canals, &c.	4,880			
MALGOOZAREB A:	A IN RCRES.		Вроот.	1,838	Irrigated by wells.		Unirrigated.
Total Male	TOTAL CULTIVATED AREA IN RCRES.		Dakur.	1,973	Irrigated by wells.	By Canals. 290	Unirrigated. 1,419
H	TOTAL C		Roalee.	28,561	Irrigated by wells.	By Canals. 2,621	Unirrigated. 19,808
			<b>Ж</b> еевли.	9,666	Irrigated by wells.	By Canals.	Unirrigated. 166
	<u> </u>			:			
		Name of Pergunnah.		ŧ			
		me of I		:			
		Ä		9 Bugra,			

numerous as the number of pro-prietors increases both classes of tenants get gradually showed out, there is clearly not room enough for all of them.

The amount of land held by each class is much less in this than in the neighbouring pergun-nah of Mozuffarnuggur. These "Bhyachars" estates have in themselves the sood of self-de-struction. prevails, is of cul-re most All clauses of cultivators in-creasing in numbers, and the ex-tent of their holdings decreasing in presention. In this pergunnah Benarks. Average of culti-• ρį 12 왉 0 49 61 넊 Comparative statement of Cultivators with and without right of occupancy and of cultivating proprietors. ŝ ÷ Land cultivat-ed by them. 16,900 20,131 3,281 ì Cultivating proprietors. 1,744 2,992 94 ì Amount of Average of cul-by them. 60 Φ p.; 8 • qn, -뼈 Ī 69 10 ď 12,956 12,436 22 ŧ Tenants at 5,012 2,589 2,423 1 Average of cultivation. 12 Pi 2 64 럺 6 : 9 4 Amount of land held by them in acres. 3,115 6,356 9,471 ŧ Cultivators
having right
of occupancy. 1,310 2,447 1,137 : : ÷ Year. : : 3840 1860 ī ** : Name of Per-gunnah. Decrease, Increase, Bugra,

S. N. MARTIN, Collector.

S. N. MARTIN, Collector.

Statement of Villages paying rents in money and in kind.

Benarks.				
Cultivators paying rent in money.	1,652			
Cultivators paying rent in kind.	4,703			
Villages in which rent in kind prevails,		16 villages in which only rent in kind prevalls.	52 villages in which both sorts of rent prevail.	
Whole efficient fol	•		<del></del>	
Total number of whole willages in which rent in money has been fixed instead of that in kind.	*			
Total number of villages,	7.6			
Name of Pergunnah.	***			

Statement of Pukka Masonry wells used for irrigation.

Wells that are out of regair.	10	If columns 3 and 4 be added, the difference between the result and column 2 (viz. 72 wells) gives the excess of wells in 1862 over the number at the last settlement, but then some are in utterly bad repair, not fit for ms.
oury wells at the present Settle- ment.		485
Masoury wells at the last Settlement. Mass	<b>ા</b>	888
Name of Pergumah,	1	Bugffs,

S. N. MARTIN, Collector.

A. Statem'nt showing the effects of alienation by sales in execution of decrees of Court, or by private transfer during the currency of the past Settlement in the Tehseelee of Moozuffer-nuggur, Pergunnah of Bugra.

		100  100  100  100  100  100  100  100
	Remarks.	The private tranben, been, By order of Court, Exempt, Conflocated for rebellion, Total,  The price fetcl vate transfer is double the jumms true, shows that p not been much so not been much so in this pergunnal by order of Coufetched at sale little more than the jumms; both the jumms; both the jumms; both the jumms; both the jumms; both the jumms; both the jumms; both the prior transfers and the fransfers and the fransfers and the fransfers and the sales, nearly onesales, nearly onesales, nearly onesales, nearly onesales, nearly onesales.
RANS-	Acres.	38,401 Acres.
EXEMPT FROM TRANS-	Portions	1,903= 31,963 Acres.
EXEMPT	Whole Villages.	18== 6,438 Acres.
	Увіце.	7 10 54,263 5 3
TOTAL.	.smmt	16,264 21,745 7 10
	.В Стев.	16,264
	Portions.	80 80 80
	Whole Villages.	
F Court.	Value,	19,001
BY ORDER OF COURT.	.amms.	6 879 7 10
Transers	Acres.	3,869
TE	Portions.	883
	Whole Villages.	- 288
BRS	·salue.	35,261 10
PRIVATE TRANSFERS.	Jumms	12,395 15,865 0 0
Pai	Acres.	12,395
	Portions.	29
	Whole Villages.	
	.smms.	86,896,896,986,986,986,986,986,986,986,9
	евэтэв пі вэтА	
	Mame of Pergunn Mumber of Villag	

Pergunnah.	Zemindaree.	Putteedaree.	Bhyachara.
JHINJHANA	Odree. Bhumbheree Shahpoor. Byed Kheree. Tarapoor. Tuprana Goojran. Allaooddeenpoor. Gurhee Meranbhaeekhan.	Umbehta. Buhera. Paotee Khoord. Puttee Panthoopoora. Putnee Purtabpoor. Choonghyaree. Hussunpoor. Simbhalka. Shahjehanpoor. Khairkee. Gurhee Hussunpoor. Moondeith. Hursana. Hoshungpoor.	Akapoor oorf Phoosgurh. Emamnuggur. Oon. Beebeepoor Jellalabad. Bujhairee. Bassniee. Bhatoo. Puhelka. Poor. Peerkhera. Panthoopoora. Pindora Jehangeerpoor. Tana. Tuprana Afghanan. Do. Jatan. Jumalpoor. Qusbah Jhinjhana. Chowndaheree. Khanpoor. Duthera. Dirughpoor. Doollakheree. Dhindhalee. Rahutpoor. Rajhur. Ruzzaknuggur. Rungana. Sanpis. Soojankheree. Sikundurpoor. Shamlee Shamla. Tahurpoor. Eesa Musra. Kurarwa. Kheree Khooshnam. Khera Bhaoo. Gagour. Gungarampoor. Lawly Dadoopoor. Malendee. Nase Nugla. Nagoo Muzra. Now Naglee. Hatchhoha.
tal.	7 mouzahs.	14	44

Statement showing the effects of Alienation by Sales in execution of Decrees of Court, or by private transfer, during the currency of the past Settlement in the Tehneles of Shamles.

22.	EAM6	Acres.	43,317							
21.	Exempt PROM TRANS-	Portions.	3,327= 41,123	Acres.						
	Exem	Whole Village.	2,194	Acres.		-				
19.		Value,	67,389 4 3	Whole Villages.	1,779 12 3	Portions.	66,609 8 0			
18.	Toral.	Ammut	9,078 13,642 3 0 67,389 4 3	Whole Villiages.	910 0 0	Portions.	12,732 3 0 65,609	-		
17.	H	Астев.	9,078							
16.		Portion.	518= 7,928	A cres.						
15.		Whole Village.	2= 1,150	Acres.	<del>-,,</del>		7			
14.	URT.	.sniaV	7,626 4 3	Whole Villages.	529 12 3	Portions.	7,096 8 0			
13.	Transfers BY Order of Court.	.ammut	2,623 11 9	Whole Vil- lages.	400 0 0	Portions.	9,223 11 9			
12.	BS BY	Acres.	1,821							rtics. parties.
11.	TRANGE	Portion,	84= 1,168	Астев.						nd 616 pa
10.		Whole Village.	0 1=653	Acres.					· <del></del>	insfers s transfe
6		Value.	59,763 0	Whole Villages.	1,250 0 0	Portions.	58,513 · 0 0		-	Remarks.—The 4:4 portions in column 6 are equivalent to 434 transfers and 616 partica. The 94 portions in column 11 are also equivalent to 84 transfers and 78 partic. The 8 to 7 in column 91 are also equivalent to 9 narios.
æ	PRIVATE TRANSFERS.	Jumns	7,267 11,018 7 3	Whole Villages.	610 0 0	Portion.	10,508 7 3			The 4:4 portions in column 6 are equivalent to 434 transfers and 616 parties. The 84 portions in column 11 are also equivalent to 84 transfers and 78 parties. The 8.87 in column 91 are emiratent to 9 naries
.:	PRIVATI	Acres.								column column
9		Portions.	434= 6,760	Асгея.					-	tions in
<b>16</b>		Whole Village.	0 1=497	Acres. Acres.		_				84 port
4		Jamps	52,489 60,975 0 0							Gmarks.—The The The
જં		Area in Acres.	52,489							1
લં	.63	Number of Village	88	Mafee.	-	1	•			

A. COLVIN, Seulement Officer.

Supplement to the Statement showing the effects of Alienation by Sale in execution of Decrees of Court, or by private transfer, during the currency of the past Settlement in the Tehseel of Shamles.

}	<del></del> `				
Exbapt from Transfers.	Portions.	Acres. 1,264=17,947	1,264—17,947 297— 7,061 	214= 3,353	2514= 3,368 251= 4,666
Ехвир	Whole Villiage.	:	 2= 1420 	2= 1420	2 774
BT ORDER OF COURT.	Portions.	Acres. 15= 103 26= 362 36= 362 38= 29 3= 14 2= 14 2= 14 2= 10	54= 564 1= 38 1= 38 	2= 41 2= 67 	3 = 67 3 = 86 1 = 17 17 4 = 53
Br ord	Whole Village.	<b>:</b> ::::::	: :::::	: : :	1=653
		;;;;;;;	: ::	: :	1 111 1
	Caste of Transferees.	Jat, Mahajun, Syud, Khuteree, Brahmin, Goldsmith, Behora,	Total, Brahmin, Mahajun,	Total, Mahajun,	Total, Mahajun, Murhul, Government, Total,
BY ORBER OF COURT.	Portions.	Acres.  54= 564	2= 41	2= 41	4 = 67 4 = 68 4 = 68 4 = 68 58
Br orb	Whole Village.	:::::		: ::::	1=663
PRIVATE TRANSFERS.	Portions.	Acres. 86= 492 15= 564 34= 175 58= 616 7= 85 6= 120	208=2,041 9= 103 3= 106 7= 130 5= 46 1= 31	25= 416 17=1,129 7= 156 1= 10 1= 82 1= 1	7 = 662   ==653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   == 653   ==
PRIVAT	Whole Village.	1=497	1=197		1 : 1 : 1 : 1
	erees.	11111	: :::::	1 11111	: ::::: :
	Caste of Transferess.	Jat, Syud, Brahnin, Mahajun, Behora, Khuttree,	Total, Rajpoot, Mahajun, Brahmin, Khuttree, Jat,	Total, Afghan, Mahajun, Syud, Barber, Blackamith,	Total, Syud, Mahajun, Goojur, Afghan, Khuttree,
Private Transfers.	Portions.	Acres. 208=2,041	208= 2,041 25= 416	25=416 27=1,378	27=1,378 22=1,203
PRIVAT	Whole Vil- lage.	Aores.	1=497	: : :	: :
	ferees.	:	: :	: :	:: :
	Transi		Total,	Total,	Total,
	Caste of Transferees.	Jat,	Rajpoot,	Afghan,	Goojur,
·4	Pergunnal		HAWA.	CVIHC	

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Supplement to the Statement showing the effects of Alienation by Sale in execution of Decrees of Court, or by private transfers, during the currency of the past Settlement in the Tehseel of Shamles.—(concluded.)

	1	`	120	, 					
Exempt prom Transpers.	Portions.	Acres, 82=1,287	82=1,287	224=1,563 	224=1,563	12= 94	12= 94	171=1,191	171=1,191
Ехен	Whole Village.	i i	:	::	:	:	:	:	:
Вт оврев ог Сопет.	Portions.	Acres. 4=179 , l= 26	5=204	3= 26	4= 27	:	:	7=144	7=144
Br or	Whole Vil- lage.		÷	::	:	ŧ.	:	:	:
	ferees.	<b>:</b> :	:	::	:		<del></del>	:	:
	Caste of Transferees.	Beloch, Mahajun,	Total,	Mahajun, Jat,	Total,	<b>:</b>	:	Mahajun,	Total,
ER OF COURT.	Portions.	Acres: 5=204	6=204	1 ::::	4= 27	::::	:	7=144	7=144
Br or	Whole Vil- lage.	::::	:	1.1111	:	11:1	:	<b>:</b> : :	:
PRIVATE TRANSPERS, BY ORDER OF COURT.	Portions.	Acres. 1= 72 6= 989 1= 77 1= 40	9-478	18=169 18=169 1=126 1=2	22=336	4= 1[ 5= 4] 17= 4] 6= 17	31=110	7= 28 2=170 8=250	17=448
PRIVAT	Whole Vil- lage.	::::	:	1::::	:	::::	1	:::	:
	Caste of Transferees.	Khuttree, Beloch, Mahajun, Brahmin,	Total,	Brahmin, Mahajun, Afghan, Jat,	Total,	Mahajun, Jat, Brahmin, Sheikhæada,	Total,	Jat, Brahmin, Mahajun,	Total,
PRIVATE TRANSFERS.	Portions.	Acres. 9=478	9=478	22=336	22=336	81=110	81=110	17=448	17-448
PRIVAT	Whole Vil- lage.	Acres.	:	:	:	:	:	i	-
	erees.	:	:	:	:	:	:	<u> </u>	:
,IIR	Caste of Transferees.	.f Beloch,	Total,	Mabajun,	Total,	Synd,	Total,	Brahmin,	Total,
		1		JHYM <b>Y</b> '	MIHT				

443== 2,140	443= 2,140	1	ì	67≈ 1,199	3,327—41,123
:	ŧ		:	:	4=2,194
<b>4</b> = 8	4= 3		i	2= 66	84=1,168
<b>;</b> :	÷		:	E	1=663
•	:		:	:	:
Syud,	Total,		Total,	Mahajun,	Total,
£	4= 3	<b>:</b>	:	2= 66	84 == 1,168
:	i	:	:	:	-653
33 20 80 80	244	8 10 8 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10	1 2	=	99,
9 70 80 80 11 11 11 11	56==		16.	1 1	434=6,760 1==653
::::	i	1::::	:		1=497
::::	:	::::	:	, <b>:</b>	:
Mahajun, Syud, Sheikhzada, Afghan,	Total,	Bajpoot, Behors, Mahajun, Peerzadah,	Total,	Bor,	Total,
277	244	28 10 54	1	7	760
35m 244	55 m 244	1 1 2	181		1=497 484=6,760
:	i		:		1-497
:	:	: : : : : : : : : : : : : : : : : : :	:	i	:
Sheikhzada,	Total.	Potter, Gara, Fukeer, Butcher, Barber, Byragee, Khuttree, Goldamith, Behora,	Total,	Bor,	Grand Total,
		HINSHAMA.—(Concluded.)	r 31		

A. COLVIN, Settlement Officer.

Profits due to Canal.

			·····					 
12.	Nett gain to the revenue of the pergunnah from the influ- ence of Canals.		2,767	If there had not been a canal, the jumms at half assets would have fallen lower than it has by this amount.				
11.	Portion of decrease attributa- ble to the influence of the Canal.		:		<b>-</b>			
10.	New Jumms.		:					
Ġ	Former Jumma.		!					_
æ	Number of villages inju- riously af- fected by Canal.		:					
7.	Portion of increase attributable exclusively to influence of Canal.	Ж.	2,767				-	 
ý	Increase.	: :	:					
۵.	New jumma.	В.	31,086	-				
÷	Area under Former aggregate Canal irriga- jumma of these tion.		31,376					
s.	Area under Canal irriga- tion.	Acres.	5,138	·				
લં	Number of villages irrigated by Canal.		56			: 		
i	Pergunnah.		Jhinjhana,					

Note.—In preparing this statement the number of wells out of work, owing to introduction of canal, have been allowed for at the rate of 22 acres annual irrigation to each well. They have been deducted from each kind of soil in the proportion which it was found that each kind of soil was irrigated throughout the pergunnah. The difference between the irrigated and unirrigated rates of the remainder gives the amount of profit.

Statement of Descriptions of Soil irrigated and unirrigated areas.

LAND NOT ASSESSABLE	-	Rent-free.		628									
LAND NOT		Waste.		9,040 6,184 351									
		Total of cul- turable land.		14,066 15,799 568	•								
		Total of land recently thrown Total of cul- out of cultiva- turable land.	tion.	4,920 1,630 196									
	·	Total of		5,703  208									
.A.									·	Total of irrigated land.	By wells.	14,170 By wells, 13,901 By other means, 26,011 29,557 670 By wells, 690 By other means, 80	
ZAREE ARE		Total of	By canals, &c.	688	•								
TOTAL MALGOOZAREE AREA.	BD ARRA IN ACRES.	Bhoos	Phoof.	Irrigated by wells, by Canals, &c., By Canals, &c., 109 By other means, 5 Unirrigated, 996 ettilement= 16									
	TOTAL CULTIVATED AREA	Dakur		Irrigated by wells,  By Canals, &c.,  By Canals, &c.,  1,066  By other means,  637  Former Settlement= 263  By other means,  11  126  By other means,  72  Unitrigated,  55  Unitrigated,  637  56  To mirrigated,  637  637  637  Contrigated,  64  Contrigated,  65  Unitrigated,	,								
		Rouslee.		Irrigated by wells, 9,024 By Canals, &c., 3,177 By other means, 73 Unirrigated, 4,063 1,165 1,165 478 643 By other means, 643 By other means, 87	·								
-		Meesun		Irrigated by wells, 3,483 By Canab, &c., By other means, Unirrigated, Mafee Villages, 132 For 3 vil- \{ Well 101}   ages only \{ \} Canal 21									
<u> </u>	ysuun.	of Perg	( Maine	Anantania F E E E E E E									

The greater part of the recently abandoned land was rain-land, thrown out of cultivation by the drought of 1860.61, or the disturbances of 1867.68.

The culturable land is chiefly duak jungle.

Total area=94 square miles. Population=306 per square mile.

A. COLVIN, Settlement Officer.

No. II.

Comparative Stutement of Cultivators with and without right of Occupancy and of Cultivating Proprietors.

cultivation	A 8 8 9	10 0 36	8 0 1	es.			8 0 8	;	
Land cultivate by them.		19,576	16,426	Deduct 9 village	886	Balance 15,540	4,036	:	
Cultivating proprietors.  Day them.		1,916	2,038	Deduct 9 villages. Deduct 9 villages.	26	Balance 1,941	:	19	
Average of cultivation.	A. R. P.	4 0 36	84 84	ı	ı		0 1 37	:	
Amount or land cultivated by them.	Acres.	8,924	7,742	Deduct 9 villages.	420	Balance 7,322	1,602	:	
Tenants-at-Will.		2,118	2,015	Deduct 9 villages. Deduct 9 villages.	23	Balance 1,956	167	<b>:</b>	
Average of cultivation.	A. B. P.	7 8 10	1 1 17			<del>, , , , , , , , , , , , , , , , , , , </del>	e 1 33	:	
Amount of land held by them.	Acres,	125	843	Deduct 9 villages.	180	Balance 663	į	238	
Cultivators hav- ing right of occupancy.		16	649	Deduct 9 villages. Deduct 9 villages.	61	Balance 488	:	472	
Year.		1840	1860				:	:	
Name of Pergunnah.			Jhinjhana,				Decrease,	Increase,	

The villages to be "deducted" are those of which the former settlement records are not forthcoming. They are inserted for uniformity : but are not available for comparison, and have not been included in the average.

A. COLVIN, Settlement Officer.

S. N. MARTIN,

No. 3. Statement of Villages paying rents in Money and in Kind.

		( 125
Bemarks.	-	
Cultivators pay- ing rent in money.	1,082	
Cultivators pay- ing rent in kind.	1,467	
Villages to which rent in kind prevails.	58= 18 villages in which only rent in kind prevails.	40 villages in which both sorts of rent prevails.
Whole winges in which money- rent previously prevailed.	I=15 Cultivators.	
Total number of whole villages in which rent in money has been fixed instead of that in kind.	41	
Total number of villages.	62 Khalisa.	58 Resumed masfee.
Name of Pergunnah,	Jhiojbans,	
		32

A. COLVIN, Settlement Officer. No. 4.

Statement of Pukka Masoury wells used for irrigation.

Wells that are out of repairs.	134	S. N. MARTIN, Collector,
Masoury wells at the present Settlement.	908	A. COLVIN, Settlement Officer.

No. 5. Statement of various kinds of Crops grown at the time of measurement.

•				
	Mutra or peas.	Ø	:	
	Sireuff or mustard.	4	:	
	Kurur.		:	
	.100sanM	18	**	
RUBBEB.	Wheat and gram.	ន្ត	:	
B	Wheat and barley.	89	₹0	
	Gram.	67.4	ST.	
	Barley.	465	a	
	Wheat.	11,699	4	
	Среспя, кипgnee.	34	:	
	Kodo Shamakh.	ю	:	
	Sunee or Hemp.	-	:	
	Моопд.	~	:	
	Торяссо.	8	₹0	
	Toriya.	447	a	
	<b>М</b> аккее.	355 1,026	4	
	Mundwa		7	
	Vegetables.		10	
	Сомызар.	8. 12	#	
H.	प्रशास्त्रमः	182	**0	
Khurrer.	Mote	603	81	
Ħ	.bornd.	383	4.	
	Jower.	222	-	
	Chuhora Moonjee.	1,320	\$\$	
	Dhan.	64	:	
	Сритгее.	4,569	18}	
	Cotton	823	₹	
	Sugar-cane for the next		:	
	Sugar-cane.	1,442	•	
	Cultivated area in acres.	25,011	100	
	Name of Pergunnah.	HANA.	THIRT	

A. COLVIN,
Settlement Officer.

( 127 )

Statement showing the tenures on which the mehals of Zillah Moosuffernuggur are held.

S. M. MARTIN, Collector.

Statement showing the effects of alteration by sales in execution of decress of Court, or by private transfer, during the ourrency of the past Settlement in the Tehseslee of Mozufernuggur.

	Remarks.	జ్ఞ	9= 2,412= 45,098 1,934 acres concres acres facated on account of rebel- i,402 89,696 Hon.	Three parts allowed for the above 1,934 acres confiscated on account of rebellion.
Туань	Acres.	29.	45,098	20
Exempt from Trans- fere.	Portions.	21.	2,412= acres 39,696	<b>:</b>
Eren	Whole villages.	8	a =	:
	Value.	19.	Ba. a. p. 47,971 9 0 Whole village, 16,000 0 0 Portions, 81,971 9 0	i
Total.	.smmt	18.	Bs. a. p. 15,861 4 1 Whole village, 1,129 0 0 Portions 14,732 4 1	i .
	.esroA	17.		<u>,</u>
	Portions.	16.	8	3
	W hole villages.	16.	H	1
nrt.	.enlaV	14.	P. Rs. s. p. 9 22,132 10 9 Whole y, village, 10 16,000 0 0 18, Portions 1 9 6,132 10 9	ŧ
Transfers by order of Court.	-smant	<b>5</b>	Rs. s. 7,488 18 Whole village 11,129 0 Portion 6,309 18	i
Transfers	Acres.	ğ	5, 104 Whole village 751 Portions,	6
	Portions.	11.	73	:
	Whole villages.	10.	=	:
	·enlaV	oi.	Bs. s. p. 25,838 14 3	i
Private Transfers.	.smmv.	ø,	Rs. s. p. 8,422 6 4	i
Prive	четоя.	.:	5,199	6
	Portions.	ဖ	827	i
	Whole villages.	ъ.	:	<u>:</u>
	Jamma	<b>÷</b>	Rs. a. p. 57,335 65,100 1 0	:
	A rea in acres.	eó		001
.89.	Salliv to 19dmuN	બ	99	<u> </u>
• <b>ц</b> в:	Name of Pergunt	-	URTHAW UL.	μ _O

This lower line shows the percentage of transfers.

S. N. MARTIN,

Supplement to the Statement showing the effects of alteration by sale in execution of Decrees of Court, or by private Transfer during the Currency of the past settlement in the Tehseeles of Moozuffernuggur.

1		T																				
	Remarks.																				1,934 Acres con-	nscated to Govt.
Exempt from Transfers,	Portions.	Acres- 505= 3.982			506= 3.982	809= 15,042					809= 15,042	200= 2,928	200= 2.998	884= 12 949				884= 12,249	:		10= 418	
Erempt /	W hole villa-	Acres.			3-1,902	1= 287				- 1	2	:	:	8= 2.014				8 = 2,014	:	:	::	9= 1,199
By order of Court.	Portions.	Acres.	5 314 5 239	, 2,943   = 1,943   + 1,043	16= 3,232	2= 64	3 8 			- 1	10= 250	•	:	1	991 = 01	5= 423		37= 786	7 == 7	:	1 2 2 2	79. 4 959
By or	Whole villa-	Acres. 1=751	::	::	1=751	:	: :	: :		1	:	:	:	:	:	::		:	:	:	::	
	ferees,	3	::	::		:	: :	: :						:	:	::			:		::	
	Caste of Transferees.	Buhorah,	Syud, Khuttree,	Brahman,		Tugga,	Mahajun, Jat,	Sheikh,						Buhorsh,	Rajpoot,	Bhat,			Sheikh,		Brahmin,	
By order of Court.	Portions.	Acres. 16= 3,232			16= 3,232	15= 295	•			JAm 90K	Ι.		:	37= 736			- 1	37= 786	4	: !	•	72= 4.353
By or	Whole villa- ges.	Acre.			1=751	:							:	:				:	:	:	: :	1751
te Transfere.	Portions.	قؤ إ	8		70= 1,475			10= 127	# 80 F	-	061 = 01	١ ١	18= 330	•	25 494	,	20= 641	1840	: [		64	227= 5,199
Private	Whole villa- ges.	Acre.	:::	: : :	:	:	ŧ :	:	::		: :	:	:	:	: :	:	:	:	:	:	:	: :
	sfereeş.	i	: : :	:::		:	<b>:</b> :	, Don't	ruer, )	•	ŧ	:		:	: :	:	:			:	: :	:
	Caste of Transferees.	Synd,	Tuggas, Mahajun.	Khuttree, Pathan,		Tugga,	Jat,	Synd,		•	Buhorsh,	Mahajun,		Rajpoot,	Brahmin,	Bhat,	same:		Thomas	Brahmin.	Brahmin,	
Private Transfers.	Portions.	Acres. 70=1,475			70=1,476	53=1,164				53= 1,164	18= 830	- 1	18= 230	79 = 1,845			79= 1 84K	100	:=!		4= 286 9= 64	12
Prior	Whole vil-	Acres.			:	:				:	:		:	:			:		<i>i</i> :	:	:	
	ferers.	:			:	:				:	:		:	;					: :	:	man,	ı
	Caste of Transferers.	Synd,			Total,	Tuggas,				Total,	Jat,	Ē	Tenor	tsajpoot,			Total	Brahmin.	Mirassee,	Sanee,	Jogee Mussulman, Goldsmith.	GRAND TOTAL,
	Pergunah.									24	~-	#OH	<b>.</b>	_		_	_		_		_	7

Profits due to Canal.

•	•	•	t-	80				=	20
nder ca- igation.	Former age gregated um na of these villages.	New Ju	Portion of increase Number of vil attributable exclusion injuriously affect of canal.	Number of villages injuriously affected by canal.	! (sa /			ion of de- attributa- the infu- the caual,	Nett gain to the revenue of the pergunnah from the influence of canal.
res.	B.	Ra	af.						æ
4,865	17,321	180	1,850	ī	<b>:</b>	:	_	1	1,850

Not.—In estimating the amount of irrigation and profits due to the canal care has been taken to deduct the irrigation from wells thrown inte disuse by the canal; thus in this pergunnah 23 wells are out well 22 acres of annual irrigation has been allowed; they have been deducted from each kind of soil in the proposition in which it was found that each kind was irrigated by wells throughout the pergunnah. The difference between the trigated and unirrigated rates of the remainder gives the total of column 7.

S. B. MARTIN, Collector.

Land not assessable.

Statement of descriptions of soil, irrigated and unirrigated areas.

TOTAL MALGOOGARES AREA.

92 square miles, 297 per square mile. Remarks. 2 Rent-free. 6,659 .estes W 5,213 Total of caltur-able land, 2,284 tion: Fotal of land recently thrown out of cultiva-Total of and-botagitti batal 29,176 10,308 by wells 8,318 by other means 1,990 Total of irrigated land. By wells. 44,359 4,865 By canals, &c. by other means 61 by canal, 35 untrigated, 4,099. 4,249 irrigated by wells, Fotal cultivated ares in acres. Bhoor, Agates, 181
181
by other means, 1
133 2,821 intigated by wells, by canal, 576 unirrigated 1,981. Bekur. 26,949
irrigated by wells is 2,864,
by other means,
1,079,
by canal, 2,107
unirrigated 30,899. Roslee, in,3300 firigated by wells in 5,219 by other means,717, by by canal 2147, unirrigated 2,247. Meesum. : Name of Pergumah. Churthawul,

Comparative Statement of Cultivators with and without right of Occupancy and of Cultivating Proprietors.

A	Name of Pergunnah.	Year.	Cultivators having right of occupancy.	Cultivators Amount of Average of having land held cultivation occupancy.	Average of cultivation in acres.	Tenante-at- will,	Amount of land cultivated by them in acres.	Amount of land culti- Average of vated by cultivation them in in acres.	Cultivating proprietors.	Land cultivated by them in acres.	Average of cultivation in acres.	Remarks,
I					A. r. p.			A. r. p.			A. r. p.	
5	Churthawul,	1,840	<b>9</b> 68	606'9	7 8 84	3,623	14,892	4 0 178	1,734	18,390	10 2 17	The same facts are found here as in the other pergunnahe, the numbers of here-
		1,860	2,014	11,518	25 28	3,554	11,310	3 0 25	2,046	189'18	10 2 11	ditary cultivators have increased, but their holdings have diminished. Tenants-at-will, however, have dimi-
H	Decrease,	:	:	:	1 3 39	\$	8,682	0 32}	:	:	9	nished. Cultivating proprietors have increased by 312, but their holdings are nearly stationary. This is peculiar.
7 34	Increase,	<u> </u>	1,118	4,609	:	:	· <b>!</b>	:	81	3,231	:	

S. N. MARTIN, Collector.

Statement of Villages paying rents in money and kind.

Name of Pergunnah.	Total number of Villages (mehals.)		Total number of whole Villages in which rents in which money have been fixed instead of previously prevailed, that in kind.	Villages in which rent in kind prevails,	Cultivators paying rent in kind.	Cultivators paying rent in money.	Remarks.
Churthawul,	99	i	æ	63	3,949	1,476	
	- •		143 Cultivators Kuch- holee. Dudheree, Khoord, Akhlour.	148 Cultivators Kuch- 15 Cultivators Kuch- 16 Cultivators Cuch Conjugate in which only 17 Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators Cultivators			

S. N. MAIITIN, Collector.

Statement of Pukka Masonry Wells used for Irrigation.

out of Remarks.	The 54 wells entered in Column 4, are besides the wells entered in Column 3, therefore 55 wells have been built since the last Settlement.
Wells that are out of Repair.	49
Masonry wells at the last sent Settlement.	268
Magonry wells at the last Settlement.	262
-	:
Name of Pergunnah,	i
Name of	i
	Churthawul,

. Statement of various kinds of Crops grown at the time of measurement.

1	Hurhur.		
	Chenah. Mutur.	8	<u> </u>
	M us 8001.		
	Wheat and Gram.	100 15	-++
Rubbee.	Wheat and Barley.	134	*
8	Gram.	88	*
	Barley.	543	*
	Wheat,	18,931	424
	Lobya		
	Тиракее.	88	*
	.nawiA.	-	` <u>:</u>
	<b>Микка.</b>	88	:
1	Kungnee.	138	i
	Kodo and Shamakh.	553	7
	Sunce or hemp.	80	:
	Moong.		:
	Торяссо.	15	:
	-syiroT	226	-40
	.ogibaI	:	:
ŀ	Маккее.	992	23
	Mandwa.	316	**
, je	Vegetable.	918	-40
Khurreef.	Gowata.	8	**
	-III	••	:
	.aria8	813	61
	Mote.	2,896	<b>3</b> 9
	Oorrad.	6,227	7
	JOWRI.	822 1,059	7
	Срометя пропјее.	•	ette,
	Dhan.	984	तं
	Съритее.	6,111	# ::
	Cotton.	1,968	\$
	Биgar-сапе.	2,088	<b>‡</b>
.891	Caltivated Area in A	44,849	100
	. d	-	<del></del>
	Name of Pergunnah		Caut current,
1	Ž	∫ €	3

B. N. MARTIN, Collector.

Pergunnah.	Zemindaree.	Putteedaree.	Bhyachara.	Total.
KYRANAH. {	1. Punjeet. 2. Jullalpoor. 3. Jundheree. 4. Churhao. 5. Chakkundelå. 6. Chukkheree Kufshdoz, oorf Teeturwara. 7. Do., oorf Kyrrans. 8. Ghazeepoor. 9. Kishorepoor. 10. Mamoar. 11. Mullikpoor.	1. Boodoopoora. 2. Beebeepoor Huttia. 3. Puhár Muzra, 4. Teeturwara, 5. Jugunpoor. 6. Chuk Aleepoor, oorf Teeturwáná. 7. Do. oorf Kyráná. 8. Hyderpoor. 9. Seepat. 10. Aleepoor. 11. Kookurheree. 12. Koondlá. 13. Mohummudpook Ráeen. 14. Muvee.	1. Akberpoor Sunhetee. 2. Oonchá Gáon. 3. Airtee. 4. Burálá. 5. Burnávee. 6. Bussera. 7. Bhoora Puttee Mussulmánán. 8. Bhoora Puttee Hindooán. 9. Beenra. 10. Paotee Kulán. 11. Putepur. 12. Dubheree Khoord. 13. Rámrá. 14. Ráná Musrá. 15. Besápoor Khoorgán. 16. Kundelá. 17. Kheree Kufshdoz. 18. Kheree Boocha. 19. Kyráná Turuf Khoord. 20. Ditto Turuf Sádho. 21. Ditto Turuf Sádho. 22. Ditto Turuf Kásim. 23. Ditto Turuf Kanoongoyán. 24. Ditto Mehal Mozbetta. 25. Gundráon. 26. Gogowán. 27. Laloopoor. 28. Mokundpoor. 29. Mundawur. 30. Nuglá Ráeen. 31. Hingoo Kheree Mehal, 6½ Biswas. 32. Ditto Mehal, 18½ Biswas.	
Total,	11	14	32	57 Mehals

moderate, o w in g partly perhaps to the fact that transfers among a Goojure will take transfers from Goojure, but I doubt if other eastes would like to lay out their ing the shares of Goojure, acres.
The transfers in this
Pergunnah 10% per
cent have been very | 18=| 3,867=| 61,192 | 195 acres conflicated 8,714 42,471 | 0n account of rebelactes | acres acres acres | 89 4 for confiscated 195 Statement showing the effects of Alienation by sale in execution of Decress of Court, or private Transfer during the currency of the past Settlement in the Tehseelee of Shamles. Remarks. 23 Exempt from Trans-fers. 22 Acres. Ę. ŧ Portions. 20. : Whole villages. æj ġ Value. : 50,629 **B**8 7,165 4 11 ġ đ . 8 Total. .ammu L : Z. 6,230 20 7. Acres. 489 16. : Portions. 15 Whole villages. : 7 eş. Value. : 15,906 Transfers by order of Court. B. Ö å 2,526 15 5. ď : .ammet B. 2,897 ₹ <u>5</u> A cres. 132 ï. Portions. : 10 : Whole villages. : ō å Value. : œ, 6 34,723 g. Private Transfers. غ œ Jamma : 4,638 œ B3 3,833 5 . Acres. 357= 3,833 acres. ø, Portions. : W hole villages. 10 : 57,617 47,826 8 3 Jamma. : 4 B3. 8 ကံ Area in Acres. ø Number of villages. ፥ Name of Pergunnah. KTRANAH.

S. N. MARTIN, Collector.

18-e 8,714 3,867-e 42,478 195 acres confis-cated on account of rebellion.

S. N. MARTIN, Collector.

B. Supplement to the Statement showing the effects of alienation by sals in execution of Decrees of Court, or private transfer during the currency of the past Settlement in the Tchaseles of Shamles.

Primit transfers.	To the	ander of Court.	Casts of trans-		By order of Court.			
Whole wilt. Portions.	7 bole Jages.	Portions.	fere <b>es.</b>	Whole vil- lages.	Portions,			
Acres.					8			
. 186== 624	1	=		ŧ	R =			
	:		Scelanin	: :	2 m			
	: :	i	Kullal,	ŧ				
		- 1			- 1			
126= 624	:		***	**	11- 61			
	:	2- 157	Mahajun,	:	2- 167			
151-2,679	:	109-1,930	Muhajun,	**	64== 1,025			
	I		Sheirhanda	: :				
	: :		Brahmin,	:				
	:		Rajpoot,	:				
				:	1			
			Synd,	:				
			Mayeth,	: :				
			THEEL OF DOME					
161-2,679	:	109-1,934	1	:	109-1,938			
000 -4-								
79 290	£	:	•	:	:			
- 1								
1.5mm 2.80			***	!	1			
4= 17	***	***		i	:			
- 1								
- 1	:	.	***	:				
66== 136	:	٥ ا	Mahajun,	:	7= 0			
KR 188	:	2		:	2 -2			
	:		***	:	:			
		i	ŧ	**	:			
	1	i	•	:	:			
	1 :	• 1	1	: ;	: :			
	i							
	:	:	**	449	***			
	I	3= 938	Goojur,					
	1		Murnul,	*				
	:	3- 259	991	:	282			
	:	133-2,597	:	;	132-2,597	18-8,714 3,4	3,857 = 42,478 195 Lores	195 Lores

Total, Mahajun,

Total, Afghan,

Total

Total, Kayeth,

KTRAKAU.

1 ::

Total, Brahmin, Goojar,

Caste of trans-

Sheikhmada, ...

Profits due to Canal.

	ď	က်	4	5.	9	7.	<b>හ්</b>	Ġ.	10.	11.	12.
rgg db.	Number of Villages irrigated by Canal.	Area under Canal irriga- tion.	Pergun- Villages Canal irrigate gate Jumma of tion.	New Jumma.	Increase.	Portion of increase attributable exclusively to influence of Canal.	ortion of increase satributable exclusioning affected by garely to influence of Canal.	Former Jumma.	New Jumma.	Portion of decrease attributable to the in- fluence of the Canal.	Portion of decrease Net gain to the revenue of attributable to the influence of the Canal.
Kyrana	80	Rs. a. p. 7,853 0 0	Rs. a. p. Rs. a. p. 7,853 0 0 31,060 4 3	Rs. 35,730	Rs. Rs. a. p. 35,730 4,669 11 9	Rs. a. p. 3,647 0 0	:	i	:		Rs. 3,647

Where well irrigation exists 22 acres have been allowed for each well, this is deducted from the whole amount of irrigation; upon the balance the difference between unirrigated and irrigated rates gives the amount of profit due to the Canal,

Statement of descriptions of Soil, irrigated and unirrigated Areas, &c.

89	Remarks				·
LAND NOT ASSESS- ABLE.		te. Rent- free.		1,096	
LAN		Waste.		6,301	
		t culturable		14,782	
	Total of land	recently Total of thrown out culturable of cultiva. land.	tion.	1,734	
		recently thrown out Total of unirri- of cultiva-	gated land.	8,707	
<b>.</b>		Total of irrigated land	By Wells.	7,853 17,092 by wells, 16,461, by other means, 631. Total Cultivation.=33,642	" Malgoozaree, = 50,148 " Area of village, 57,545 acres.
Total Malgoozarer Area.	83,	Total of ir	By Canals.		" Malgoo
Total Male	Total Cultivated Area in Acres,	Bhoor.		2019 irrigated by well, 571, canal, 38, other means, 8,	
	Total Culti	Dakur.		2,775 ted by well, 1,115, nal, 912, er means,	gated, 585.
	-	Boslee,		25,190 irrigated by well, 11,863, canal, 6,211, other means, 420, unirrigated,	6,697.
Mesun.				irrigated by wells, irrigated by well, irriga 2,903, 2,903, by canals, 692, canal, 6,211, can by other means, other means, 420, other 40.	unirrigated, 23.
	Name of Percunnah.			Кутапаћ,	

Comparative Statement of Cultivators with and without right of occupancy and of cultivating Proprietors.

Name of Pergunnah. Year.	Year.	Cultivators having right of occupancy.	Amount of land Average of held by them in acree in acree	Average of cultivation in acres.	ants-at-will.	Amount of land Average of cultivating pro- Land cultivated them in acres.	Average of cultivation in acres.	Cultivating pro- prietors.	Land cultivated by them in acrea.	Average of cultivation in acres.	Bemarks.
Kyransh,	1840,	17 527 2,346 Deduct Balance. Deduct Balance. 1 village 527 1 village, 2,246	170 2,246 Deduct Belance. 1 village, 2,246	A. 1.0 p	2,614 2,386 Deduct Balance, 1 village 382 6 Acres.	14,945 13,220 Deduct Balance. 1 village 13,141 79	A. r. p. 65 28 36 8. 8 8 8	1,321 1,484 Deduct Balance. 1 village 1 acre 1,483	15,360 18,176. Deduct balance. 1 village. 66 18,110	A. r. p. 11 2 29 12 0 34	The village to be deducted is that of which the former Settlement records are not forth-coming. It is inserted for uniformity, but is
Decrease, Increase,	::	510	2,076	5 2 38	 	1,804			2,750	 9. 13	nor available for comparison, and has not been included in the average.

Statement of Villages paying rents in money and kind.

Benarks.	Of 57 entered in Col. 2,—2 villages are cultivated by the proprietors themselves and one Kookerheres is now lying uncultivated.
Cultivators paying rent in money.	1,418
Cultivators paying rent in kind.	1,238
Villages in which rent in kind prevails.	45 10 Villages in which only rent in kind prevails. 35. Do, in which both sorts of rent prevail.
Whole villages in which money rents previously prevailed.	<b>о</b>
Total number of whole villages in which rents in money have been fixed instead of that in kind.	
Total number of villages (mehals.)	67
Name of Pergunnah.  Total number of villages in which rents in money have been fixed instead of that in kind.  Total number of villages in which rent which rent in money paying of that in kind.  Total number of villages in which rent in kind.  Total number of villages in which rent in kind.  Trent in kind.	Kyranah,

S. N. MARTIN, Collector.

Statement of Pucka Masonry wells used for irrigation.

Remarks,	The 123 wells are in addition to those entered in Column 3.
Wells that are out of repair.	88
Masonry Wells at the present Settlement.	794
Masonry Wells at the last Settle- Settlement.  Wells that are out of repair.	884
	:
gennah.	•
Name of Pergunnah.	i i
	Kyranab,

Statement showing the various kinds of Crops grown at the time of Measurement.

	Kullownjee.	9 :
	Sont.	
	Peas or Muttar.	<b>6</b> :
	Lineced.	• :
	Mustard.	ю ;
	Kurrur.	70 š
XX.	Massor.	808
RUBBEE	Wheat and gram.	118
	Wheat and barley.	78
	Gram.	8,644
	Berley.	618
	Wheat.	13,502
	Lobiya	\$ :
	Kungnee.	ŧ 12
	Kodo Shamakh.	£1 ::
	Hemp.	169
	Moong.	26
	Tobacco.	61 ·**
	Torya.	£
	.ogibaI	380
	Makkee	81 749 1,362 380
	Mundws.	2 2
į.	Vegetable.	18
RREE	Gowara.	324
Khorre	Til	9 :
-	Bajra.	855
	Mote.	786 24
	Oorud.	32 28
	sawot	3,755
	Сранота Моопјее.	870 24
	Dhan.	208
	Сһиттее.	
	Cotton.	1,606 2,384
	Виват-сапе.	303
cres.	A ni asta betavitinO	33,642
	Name of Pergunnah.	KTRANAHA

The lower line shows the percentage of each orop.

8. N. MARTIN, Magistrate and Collector.

	ark.	ios Shareholders representing 109 shares have made transfers.	in the				unt of	e been	the Goojurs,	ne crass													•	•		•						
	Bemark.	34,919 208 Shareholders representing 109 shares have made	ulement			Remarka,	The largest amount of	fers have		in this pergunsh.										•											٠	
1 ran	.seroA		st Se			_	he la	transfers	Suoms the part	inth																						
ferenti fere.	Portions.	827= 17,153	the pa	-	<u>;  </u>		1		•		_				,538				805	306	808		308	\$		-	53	<b>38</b>		98		7
To remi	Whole vil- lages.	83== 17,766	fo hou	7	1 70%	Portions	948-14 588		:	: :	: :	:		: :	248-14,533	:	:	<b>!</b> :	16=	16=	1	:	1	=	:		<b>!</b>	2	. [	1	:	
	-enlaV	Bs. s. p. 11,751 whole villages 525 Portion. 11,236	ing the our	Grant Gran Transfer	Exempt from	Whole.	acres.	_	:	: :	: :	:	:	<u> </u>	27=15,543	:	:	: :	: :	:	:	:	ì	:	766 1 607	•	1= 406	:	74	::	:	: :
Total.	,ampt	Rs. s. p. 2,550 7 8 whole villages 473 Portions. 2,077 7 3	ransfere dur	Ru order of Court	e e contr.	Portions.	acres.	:	8= 562	900	: :	:	:	::	24=1,261	:	:	::	:	:	:	:	:	1= 140	3	: :	:	:	: :	: :	:	:
	A cres.	6,642	ate 7.5	Ru ard	Whole	vill- lages.		:	:	: :	:	:	:	: :	1	:	:	: :	:	:	:	:	:	:		::	:	:	: :	:	:	:
	Portions.	5,364	y priv				i		₽, 4	•						<u>                                      </u>					_			:	_							1 .
	Whole vil- lages.	3= 1,278 scres.	rt or b	2	Caste	Transferree	Gooine		Mahajun,		:	:	:	: :	:	:	: :	: :		•	:			Murhul	: :		:	1	1 1	•	Mahainn	
ourt	Value.	P. 8 6,970	cution of Decrees of Court or	and to find	Dy order of Lours.	Portions.	24-1.261		:	: :	- : :	i	:	::	24=1,261	:	:	: :	:	3	:	:	:	280	: :	::	:	:	: :	:	:	1
ter of C	1 amps.	Rs. s. p. 1,073 8 6	f Decr	2000	Whole				•	: :		_	_	 : :	:	<u> </u>   :	: :			:	:		<u> </u>  :	 :	•		_	•		. :	•	_
by or	Acres.	1,555	tion of	2000				280	88	818	2	249	8:3		Ļ		_	_				4	339	•	_	_	_	2	_		20 2	
Transfers by order of Court	Portions.	27= 1,656 acres.	execus		ransfers.	Portions.	1 6 19	10 = 2					ı. I.	11	60=2,865				]=	6= 1	4= 2		<b>5=</b> 3:	i	:	<b>!</b> !			: :			
i	Whole vil-	:	ale is	10	ויי		<u>                                      </u>	-							1	<u>                                      </u>						-										_
	Value.	Re. a. p. 4,781 wholevillages 525 Portions. 4,256	nation by s	0	<u>-</u>	Whole villages.	<b>a</b>	619 =1	:	: 1	: :	:		: : <del></del>	1= 519	1= 261		::		198 =1	*	:	:	:	:	1 498	:	:	: :	٠,		: :
Private Transfers.	-smot	Es. a. p. 1,477 \$ 9 whole villages 473 0 0 Portions.	B.—Supplement to the Statement showing the effects of Alienation by sale in execution of Decrees of Court or by private Transfers during the currency of the past Settlement in the		Caste of Trans-	ferree.	Pooins		·	Theoram,			Jat,	Khuttree,	:	Synd,		Goojur.	Sheikh Synd,	i	Mahajun,	:	:	i	:	Mahajun,		Brahmin,	: :	<b>: :</b>	Sheikh Syud,	roojur,
Priva	A cres.	5,087	g the		Ī		<u> </u>			_	_				⊢	142		_	_	<del>'</del>	839	_  	389			_		22		_	265	_
	Portions.	82= 3,809 acres.	showin		meyers.	Portions.	acres	:	:	:	: :	:	:	: :	60=2,855	9	:	: <b>:</b>	:	=9	=9		2=	:	:	: :	:.	1	: 1	i :	4 -	
	Whole vil- lages.	3== 1,278 acres.	ement	D	oate 1ra	<del></del>	61%				-				619	261		~		261	<u> </u>	<u>-                                    </u>			<del></del>	498		_				_
	-same	43,263 19,501	ie Stat	d	Ē	Whole villages.	يا		:	: :	: :	:	:	: :	1	1	•	: :	:	-1	:		:	:	:	: 1	:	:	: :	:	:	•
.serio	A ni setA		u to th		-sus-		<u>.                                    </u>	:							<u>'-</u>	:				:	:	'	:	:		: :	:	:	: ;	: 1	:	: :
-UA	Number of	2	lemen		Caste of Trans-	ferree.		· i	I	:	:	: :	:	: :	Total	வீ	•	: :	: :	Total,	8D,	:	Total,	ਜੁੰ	E	ree,	4	dia 4	a h	ă,	an,	, de
-19,	Name of P gunnah.	Gordhunpore,	-Supp			Pergrandan Aan	J								L	Sanee,					Chohan,		_	Sheikh,	<u>-</u>	Khutree,	Tugga	Brah	Rangurh.	Chumar,	Afghan,	Byragee

Statement showing the villages with areas affected by percolation and transferred to the Canal Depar No. 129, dated 9th March, 1864. Commis

녈			,	ARRA I	W ACES				RBA 1			BY EBNT.	
Name of Pergunah.	Names of Villages.	Names of Proprietors.	Cultivated.	Culeurable.	Barren	Swamp.	Total.	Cultivated.	Culturable.	Barren	Втапр.	Total	Pormer demand.
) د	Nuroo Musia	Zuboor All and others,	194	54	122		300	pa.	-4	**	31:2	312	73
2	Bubloulpoor,	Futta, Dhurm Singh and others,	71	86	85		343			_	252	252	68
8	Nancopoor,	Ditto Shere, Kunwur,	137	326 328	94 49	224 241	518 509	53	168	34	500 246		64 123
	Dhurant Puttee Gooiran,	Izhar Hoosein, Zaboor Ali,	76	49	15		140	10		10	117	137	61
5	Dhumut Puttee Sanyan,	Ditto.	149	68	50		261	77	56	10	120	278	174
8	Sikunderpoor, Bhudowlee,	Zuhoor All, Omrae Singh and Keree,	271 83	190	89	***	479 519	169 90	44	50 61	251 356	494 547	335 220
9	Mahpoor,	Jhoonka, Sahit and others,	122	108	114	***	844	14	100		200	354	54
N I	Hooselnpoor,	Nowab Ahmud AH Khan, Koora,	89	191	217	***	406	****	***		425 510	495 530	74 19
Gordbanpoor.	Khairkes,	Sheo Singh,	208	364	73	} •••	640	130	4	78	400	637	313
	Marukpoor,	Rewuk Ram,	165	67	981 61	100	519 345	30	884	46 30	465 300	511	74 300
5 8	Bolakeepoor,	Sheo Singh and Kishen Singh Nown!	111	83	184 82		35a 233	197 131	80	125	1 25 65	357	100
7 8	Kurunpeor,	Lackram, Pema and others,	656	98	150	***	899	569	189	75	120	903	984
9	Chumrawala, Muthana,	Nund Lall,	88 220	57 262	360	***	499 581	69 361	248 28	182 88	105 80	504 557	79 466
	Mohumudpoor,	Nothen,	78	186	97	187	286	111	84	59	84	292	900
	Ibraheempoor, Jheenwurhairee,	Koora, and Zuhoor Ali, Suroop and Durba,	371	167	108 66	•••	646 275	\$55 80	199	97 18	162	664 285	500 254
12	Panchiee,	Futta, and Sahuboo,	86	42	268	1000	396	49	161	78 90	1:26	404	100
5	Oodyawalee, Aeekee,	Buksheeram, Sahub Singh and Omrao	49	149	368	***	559	10	7	**	410	517	50
e		Kunwur,	139	284	285 614		701	47 102	75 158		458 854	869	190
7	Budheswals, Bunsleswals,	Ditto.	250 52	299 66	399		517	58	185	159	50	1,997	215 48
8	Rochalkee,	Hoshyar and Suhya, Mohron, Sowais, and Umer	348	196	217	***	691	281	129	69	130	798	652
	Diffit	Singh,	845	404	78	***	697	874	389	117	26	855	500
		Total,			***	ļ <del>.</del>							
ے تھ اہ	Kanewalee	Bakakaa Bam	388	I —									
kurbairee.	Ulmawala,	Ditto. ***	496	373 721	107	:							
	Zindawala,	Ditto. Boodh Singh and Goomana,	98	90 848	582 1,391	1:							
: 5/	Shadra,	Buksheeram, ""	97	100	8 :	V							
5 <u>6</u> (	Furreedpoor,	Ditto.	814	63	- 3	-							
		Total,	***		***								
2 1	Jhaburpoor,	Nujuff Ali and Furzund Ali,	641	391	328								
8	Bahmunwala, Mandunwala,	Buksheeram, Jowahur Sing (Farmer)	77	89 145	36 290	41							
9	Nasaroollapoor,	Jowahur,	238	24	98	:							
1 1	Bascra,	Mohroo, Surjeet, Munsookh and Rughbeer Sing,	4,881	1,292	470								
4 [	Godhna Godhnee	Khoorsheid Ali Khan,	1,201	430	698	ï							
A1 . 8 !	iranpoor,	Bhoors and others,	345	92	557								
	òocha,	Raja Rughbeer Singh,	251	90	294								
	alawala,	Ditto.	54 74	122	252 489	#4 1							
	oghlakpoor,	Kunwar and Jehangeer,	1,050	193	528	٠							
	oornuggur, herpoor,	Luchmun, Bahub Sing,	659 <b>82</b> 5	123 286	418 572	#1 #1							
	numsnugger,	Dya Chund,	55	149	122								
	handan,	Oodum,	820	195	490	+							
		Total,	100		***	~							
				-		_							

N. B.—The jummas Marked thus * have not been † Pins, 12,493—Total, 21,395. ment, under orders of Government, N.-W. P., conveyed through Sudder Board of R venue, N.-W. P., sioners docket No. 85, dated 17th March, 1864.

	1	Re	7181	BD.	DE	MA.	ND	INC	n. U	DIXG	CE	38 <b>2</b>	9.					per nand.			<u>ရ</u>	_	
Revised jumms.		Road fund,			School fund.			District dawk.			Putwareca wagea.		Chowkeedares.		Total of cesses.			Malikana @ Rs. 15 per cent. on former demand.	<del></del>		counts.		Remarks.
	Rø	. 2.	p.	Rs	. <b>a</b> .	. p.	R	i. 8,	p.	Rs	. 8.	p.	Rs. a.	P	Rs. a	s. p		Rs. a.	p.	Rs	. <b>8.</b>	p	
10	0	1	9	0	1	9	0	0	6	0	9	6	···		0 1	3 (	В	10 15	0	21	12	6	Although the Ameens have put down a quantity
12 12	0	2	0	-	2		Ō	0	6	0	11	0			0 1 0 1	5 6	5	9 5 9 10	0	22 22	9	6	of land as culturable, it is really not so: an im-
10 15	0	1	9	0	1 2	9	1	0	9		9 14	6	1 0	0			1	18 7 9 2	0	30	14	6 3	pure soda called "Reh" has appeared in many
30	0	5	0		5	0		1	3		18	6	20	0	4 8		1	26 2	0		10	9	places, rendering cultiva- tion of plants quite impos- sible, not even wild gras-
50 15	0	8	6	0	8	6	_	2	0 6		0 14	0 6	4 0	0		2 C		50 4 33 0	0	1 <del>08</del> 50	6	0	ses grow : where once this poison appears on surface
12 12	0	2	0	0	2	0	0	0	6	0	11	0	•••		0 10			8 2 11 2	0	21 24	1	6	then comes the next stage, percolation and swamp;
11	U	2	9	0	2	0	0	0	6	0	10 7	6	1 0 1 0	0	1 10	5 0	)	1 13	0	14	-	0	"reh" is almost invaria-
10	0	3	9	Ō	1	9	o	0	9	Ō	9	6	•••	0	0 13	3 6	3	11 2	Ü	21	15	6	bly the precursor of the latter.
50 60	0	8	9	0	8 9	0 9	0	2	0	8	9	8	28 0	0	6 2			45 0 15 0	0	101 79	2 15	0 6	Up to the present mo- ment swamp has been on
1r0 900	1 9	0	0	1	0	0	_	4	0		0	0	8 0 23 0	0	16 4 97			36 0 347 10	0	152		0	the increase, possibly the canal officers may yet
20	0	4	0	0	4	0	ō	ī 0	0	ī	3	6	2 8	0	4 4	. 6	3	11 14	0	86 513	2	6	check its spreading fur-
40n 80	0	8	o'	0	8	0	0	2	0	8	0	0	11 0 2 0	0	6	2 (		<b>30</b> 0	0	86	2	0	ther, but the experiment is doubtful.
<b>30</b> 0	8	0 8	0	8	8	0		12 2	0		0	0	18 0 8 0	0	42 1			75 0 38 2	0	417 95		0	Numbers 36, 39, 40, 41,
20	0	3 1	6	0	3	6 9	_	1	6	1	3 5	6	0"8	0	1 1			15 Q 7 8	0	36 18	11	6 6	42. 43, 46, 47, 50, in Pergunnah Poor still retain
100	ı	0	0	1	0	0	١,	4	0	-	0	0	7 0	c	15			- 28 8	•	143	19	٥	the lands on the high ground (banger), and the
100	1	0	0	l O	<b>0</b>	0	0	4	9	6	0	0	7 0	0	15	. (		32 4 6 7	0	147		9	revised assessment has been made on these lands
668		15	o		15	G		11	9		í	o	15 0	0	70 10			97 13	Ö	886		9	only. The khadir lands
581	6	0	0	6	0	0	1	8	0	34	14	0	24 0	0	72	5 0	١	75 O	0	728	6	0	of these villages have been handed over to the
3,688	87	9	_	 37	9	-0	9	6	_9	221	_	0	134 8	0	440		; -	976 13	0	5,104	14	9	Causi Department, but this does not affect the
30	-	5	_,	0	5	_	0	1	-		12	-6	11 0	- 0	13 7		ŀ	50 14	<del>_</del> 0	94	5	9	revised jummas and cesses which still remain on the
50 30	0	8	0	0	8	0	0	2 1	0	8	0	0	7 ŏ	Ö	11 9	8 0	þ	55 18	0	116		9	rent roll (towzee) as be- fore, and have therefore
50	0	8	0	0	8	U	0	2	8	8	12	·0	9 0	0	2 7 13 2	9 0	1	12 2 32 6	0	95	8	0	been omitted from this
20 30		<b>4</b> 5	0	0	<b>4</b> 5	0	_	1	3	_	4 12	9	5 0	0	· 6 13			15 7 13 1	0	49 45	4 8	9	statement, which is in- tended to show the trans-
210	-	8	_	2	8	-	-	- <u>-</u> -	9	12	9	-	<b>32</b> 0	7	49 8		1	179 11	_	.39	3	8	fers to the Canal Depart- ment.
*300			-	_		-	_		-			-		-			ŀ	•••					The Canal officers will collect the revised jummas
	0	1 7	0	0	1 7	0		0	3	0	.8	0	•••		0 8			10 1	0	12		8 9	with extra cesses and malikana and transmit the
*80		•••	٦	-	•••		. "	100			13	٩	•••		4 12	9	1	17 6	0		) e	•	same to the Collector;
*8,800		•••			•••			•••	Ì		••	ŀ	••• .		•••		l	•••					these will be.  Ra. a. p.
*1,30u	ŧ .	•••			•••			•••		•	•		•••		•••			•••			•••		Revenue, <b>3,978</b> 0 0 Malikana, 1,247 1 0
*200		•••	-		***			•••		•		-	•••	-	•••		l	•••		•	••		Road Fund, 40 12 0 School Fund, 40 12 0
15	0	3	0	0	8		0		9	0		0	•••		1 4			7 8	0	23 19		9 6	Dist Dawk, 10 5 6
*1,400	_		0	0		9	0		6	0.,	8	٩	•••		0 12	6		9 12	0	-	. 9 m	•	
*450 6	0	1	o	0	ï	0	0	···	8	0		0	•••	į	0 7	3		38  6	0	44	13	8	Total, Rs. 5,483- 4-6
8	0	2	9	0		0	0		6	0		0	•••		0 15	6	١	7 8	0			6	I have agreed with Major Forbes, R. E., that he
80	1	0	0	ī	0	٦,	0	4	0	6	6	0	<del></del>	-	8 10	0	-	90 9	0	179	8	0	should pay the Put- warees wages; this will
†3,978	40	12	-	10	12	_	10		6	240	<u> </u>	6	166 8	0			-	1,247 1	_	5,723	- 5	0	give him a hold over these officials.
			<u> </u>			1		_	1	~			100 0	ڵ	100 7			-,					

transferred to the Canal Department.

[†] Plus 1,278?-Total 1,4708.

Statement of descriptions of soil, irrigated and unirrigated Areas.

NOT ABSERBABLE.		, Bent-free.	<b>.</b>	_		Average of cultivation.	Ac. r. p. 14 3 16	14 3 6	01 0 0	:
1 7	•	°ల:	l <b>e</b> ?		rdhanpore.	Land cultivated by these Proprietors, Acres.	8,957	9,21\$	•	28
					s, Pergunnah G	Cultivating Proprietors.	603	623	:	8
				16,118	vating Proprietor	Average of culti- vation.	Ac r. P.	38 28	6 6	:
					without right of compancy and of cultivating Proprietors, Pergunnak Gordhampore.	Amount of land culdwated by them. Acres.	4,886	5,483	ī	596
ToT	NATE	<u> </u>			úhout right o	Tenants-at- will.	1,075	1,466	:	391
	Total outrivate	Dakur,	5,433 irrigated, 21 unirrigated, 8,412.			Average of cultivation. Acres.	Ac :: 35	4 1 8	60 64	
		Boelee.	9,369 irrigated by wells, 3 by other means, 80 untrigated 9,286.		ment of Cultivator	Amount of land held by them, in acres.	388,1	1,424	*	98
		Meenn.	3,215 irrigated by wells, 48 by other means, 187 unirrigated 2,980.		Comparative Statement of Cultivators with and	Cultivators having right of occapancy.		166	Part &	136
	•	migaj.	ŧ				:	:	:	:
		Name of Pergundan,	Gordhunpore,			Year,	1840,	1862,	Decresse,	Increaso,

S. N. MARTIN,

Collector.

Statement of villages paying rents in money and in kind.

villages in which rent Cultivators paying Cultivators paying Bemarks.  Bemarks.  Tent in money.	63 1,604 193 Three Villages are entirely cultivated by the proprietors and four are entirely unpreasils. 25 Villages in which both sorts of rent prevail.	Statement of Pukka masonry wells used for Irrigation.	at the Wells that are out of re-	
Whole villages in which money rent Vi was previously prevailing.	:	tatement of Pukka m	last Masonry wells at the present Settlement.	,
Total number of whole villages in which rent in money has been fixed instead of that in kind.	<b>:</b>	8	Pukka wells at the last Settlement.	99
Total number of villages.	69		rgunnsh.	:
Name of Pergunnah.	Gordhunpoor,		Name of Pergunah.	Gordhunpoor,

S. N. MABTIN, Collector.

Pergunnah.	Zemindaree.	Putteedaree.	Bhyachara.	Total.
Bedoler	Bhaoomuzra. Seengra. Shahpoor. Sudurpoor. Khorsuma. Khairee Zonnardar. Nusseerpoor. Teesung.	Ushrufpoor. Oodpoor. Ol'ahenee. Beenamuzra. Bhutteemuzra. Jhijhowla. Ruttound. Kairtoo. Goojurpoor. Yaheeapoor.	Undhairira. Odree. Bulamuzra. Bulhaira. Bedolee. Bhuree. Bhogeemuzra. Toda. Julkalpoor. Chousanah. Buree Bichleeal. Ditto Luhoryal. Chuttaila. Khwajpoora. Dillaora Dubhairee Donkpoora. Dhakwalla. Sukhowtee. Soobhree. Seetulgurhee. Azeezpoor. Uleepoora. Futtehpoor. Kubeerpoor. Kubeerpoor. Kulree. Kulamuzra. Kothulpoor. Lalloopoora. Myankusbah. Moondeegurhee. Moostafabad. Munsoora. Munglorah. Naeenugla. Yoosufpoor. Jellalpoor.	
Fotal,	8	10	36	54

A. COLVIN,

Settlement Officer.

S. N. MARTIN,

Collector.

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u	
•	

are equivalent to transfers.
Against the 197 transfers in column 6 were 319 share. Statement showing the effects of alienation by sales in execution of Decrees of Court, or by Private Transfers, during the ourrency of the past Settlement in the Tehseelee of Shamlee. were 104, making a total of 423, which added to the 3,334 in column 21 gives the The number 13 " portions" in columns 6 and 11 holders, and against the 92 in column 11 cotal shareholders in sents those villages een no transfers at in column 20 reprethe pergunnah. Bemarks. **3**. 42,574 ğ A cres. EXEMPT PROM TRANSFERS. 3,934 38,455 acres. <u>=</u> Pertions. 10,371 I 4 14,798 8 0 18 8 whole vil- 3 whole vil- 12,119 8 Whole Villages. acres rupees 4 5,970, paying a jumma of Ba. 1,797, 84 8 h a re s, or 2,578 a c re s, 148. 8,828 8 U jumma = Bs. lages; 2,050 lages or 4,601 shares. acres rupees 8,300 l 4 5,970, paying 2,804 11 7. Value of one whole village and of 195 shars not 6. Value. Ħ, ւտաան TOTAL 13,279 17. ACTES. 279== 8,132 acres. 16. Portions. 4= 5,147 acree. 16. Whole Villagea. 6,077 3 0 4 whole village 5 Rs. 5,200 0 0; a Rs. 877 3 0 for 10 shares or 424 acres only (and the remainder 72 shares un-known) pay-ing a jumma of Ra. 3:29 6 portions **ヹ** . Value TRANSFERS BY ORDER OF COURT. 4,047 8 9 whole village Rs. 1,250; portions 2,797 8 9 13 amma C 6,132 였 Acres. 82= 2,579 scres. 11. Portions, 8,721 5 0 1= for 2 whole 3,553 villages or acres. 2 Whole Villages. 6,323 8 7 8,721 5 0 1
Whole for 2 whole 3
villages or 20
821 0 0 10,448 acres,
Portions Rs. 70 0 0
5,502 8 7 p a y in g a paying a jumma of Bs. 547 0 0, and for 74 portions, or \$164 acres, Bs. 7,951 5 0, p a y in g a, j u m m a of Rs. 9,492 2 1. The price of the 3rd whole 5 is unascer-tainable. So also the price village entered in column Value. PRIVATE TRANSFIRS. œ .amma C 7,147 Ŀ .8910 A 197= 5,553 acres. ø, Portions. ĸ; Whole Villages. 8 42,299 ammul 59,791 ಈ Area in Acres. Mame of Pergunnah. BEDOLES,

* The five villag es transferred to Kurnal are included in this and the Statement B.

S. N. MARTIN, Collector.

COLVIN, Settlement Officer. ₫

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Supplement to the Statement showing the effects of alienation by sale in execution of decrees of Court, or by private transfer, during the currency of the past Settlement in the Tehseelee of Shamlee.

Caste of Transferees   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Whole   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   Portions   P	ah.			PRIVATE 1	PRIVATE TRANSFERS.	-		PRIVATE 3	PRIVATE TRANSFERS.	Вт оврев	Br order of Court.		Вт окож	Br order of Court.	EXBET FR	Exempt from Transfers.
Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hotal   Hota	Pergunn	Caste of Transf	<u> </u>	Whole Villages.		Caste of Transfere		Whole Villages.	Portions.	Whole Villages.		Caste of Transferees.	Whole Villages.	Portions.	Whole Villages.	Portions.
Total,   T = 30		Jat,	:	<b>A</b> cres	236		::	Acres	1 5	Acres.	5	ajun,	Acres	ษั	Acres. 2= 1,645	Асгея. 254=4,742
Peerradah,   T= 301   Mahijun,   T= 50     T= 50       T= 50       T= 64       T= 64       T= 401     T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   Syrad,   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 518   T= 51		Total,	:	:			:	:	1	:	1		:	1	2= 1,645	254=4,742
Synd,		Peerzadah,	•	:		, ,th ,tdab	:::::	;;;;;		:	: •	I	:	:	:	78= 504
Synd, 82=2,220 Synd, 68=1,562 1=\$,563 57=2,188 Synd, 1=\$,563 55=75 15=9,40 Murrul, 15=9,40 Murrul, 39=1,173 Mahajun, 17=674 Synd, 17=674 Synd, 17=674 Mahajun, 17=674 Mahajun, 17=674 Mahajun, 17=674 Total, 17=674 Total, 17=674 Total, 17=674 Total, 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17=674 17		Total,	:	:	7= 401		:	;	1	:	:		:	:	:	78= 404
Mahajun,          17= 674         Synd,          7= 346            17= 5188             17= 5188             15= 345		Synd,	:	:	82=2,220	.et .	t.		- M.	1=5,553	57=2,188	u, m	1=8,663		:	1,677=9,079
Mahajun, 17= 674 Syud, 7= 345		Total,	:	:	82=2,220		·	:	82-2,230	1=3,553	57=2,188		1=8,553	67=2,188	:	1,577=9,079
Total, 17== 674 Total, 17== 674 Total,		Mahajun,	:	:					"" -	:	:	J,	<b>:</b> .	:	:	<b>57=1,978</b>
		Total,	:	:			<u>'</u> ' :	:	1 1	:	:	Total,	ı	:	:	57=1,978

698- 7,808	698= 7,808	428 6,124	428= 6,124	86= 1,120 44= 894	44= 394	48- 678 16- 767 12- 194	12= 194	42= 183		34=33,465
3,848	4= 3,848	4- 4,925	4= 4,925	1 ::		: ::	:	1= 239	1= 916	13=12,119 3,334=33,465
5 59	6- 63	5= 107 2= 56	7= 163	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3- 57	# 1 : :	:	:	:	82-2,579
:	:	<b>:</b> :	] ;	::::	:	: : : :	:	:	.:	1=3,553
Mahajun,	Total,	Mahajun, Synd,	Total,	Affghan, Murral, Mahajun, Syud,	Total,	Mahajun, Murrul,	Total,	:	•	GRAND TOTAL,
25 1 25	5 52	7 = 18	7= 163	1= 18 8= 67 	3= 57	28 33 1	:	:	:	82=2,579
:	:	:	:	1:::	:	i : <b>i :</b>	:	}   :	:	1=3,563
261 111 111 122 130	29= 901	16 319 9 106 7 226 16 76	84= 726		δ= 96	2 11 2 11 4 11 5 11 5 11 5 11 5 11 5 11	8= 84	I.		197==5,558
990'1-11	2=1,048	1= 646	1= 546	111:	ı	: <b>: :</b> : : :	:	:	:	3=1,594
Syud, Goojur, Mahajun, Sheikhzadah,	Total,	Mahajun, Rajpoot, Syud, Sheikhzadah, Murrul,	Total,	Affghan, Murral, Mahajun, Kayeth,	Total,	Byud, Bor, Sheikhzadah, Kulial, Sheikhzadah,	Total,	:	i	GRAND TOTAL,
B9 - 901	29- 901	84= 729	84= 726	1= 18 6= 96	96 == 9	3= 112 8= 84	8= 84	:	:	197=5,553
<b>8</b> =1,048	2=1,048	1= 546	]= 846	::	:	1111	:	:	:	3=1,594
Goojur,	Total,	Bajpoot,	Total,	Affghan, Kayeth,	Total,	Brahmin, Bòr, Tugga, Kullal,	Totel,	Sheikhzadah, Mahajun and Peer- zadah holding	equal shares,	GRAND TOTAL,

Settlement Officer.

S. N. MARTI Co

BEDOM

Area in square miles= Population per square mile=219. 3,033 3,978 LAND NOT ASEESS ARLB. Rent-free. 8,252 2,101 35 .9188W 14,987 15,685 7 Total land. ÎO caltarable 5,559 8,528 Total of land recently thrown out of cul-7 No. 1.—Statement of Descriptions of Soil, Irrigated and Unisrigated Areas. 6,476 7 Total of unit-rigated land. Total, 20,544 Total of irrigated land. Other means. 14,068 28,461 281 Wells. 204 7 By Wella. TOTAL MALGOOZAREE AREA. By Canals, &c. : TOTAL CULTIVATED ARRA IN ACRES. Unirrigated. Other means. Unirrigated. Irrigated. 616 Bhoor. 1,120 Wells. FORMER SETTLEMENT-Unirrigated. Dakur. Irrigated 1,601 848 : : : : Wells. Other means. Unirrigated. Unirrigated, 14,413 Irrigated. 9,950 4,463 292 Roslee. 2 184 Unirrigated. Irrigated. Meesun. 1,902 1,947 18 ፧ : : : 5 Wells. 18 : : Name of Pergunnah. : : Mafee villages, : Bedowlee,

A. COLVIN, Settlement Officer.

No. 2.—Comparative Statement of Cultivators with and without Right of Occupancy, and of Cultivating Proprietors.

<del></del>	i		· · ·					
Remarks,	·	The cultivated area is 2,051 less than at the	last Settlement, but the labourers living on it are 318 more.		-			٠
Average of cultivation.	A. B. P.	16 8 19	9 3 18				20 20 20 20 20 20 20 20 20 20 20 20 20 2	:
Land cultivated by them in acres.		11,284	10,078	Deduct 4 villages.	677	Balance 9,4'11	1,889	
Caltivating proprietors.		718	1,026	Deduct 4 villages. Deduct 4 villages.	73	Balance 963	:	078
Average of cultivation.	A. B. P.	6 3 14	8 0 27 .		<u> </u>	<b>:::</b>		:
Amount of land cultivated by them in acres.		7,448	9366	villages. Deduct 4 villages.	887	Balance 5,479	696,1	:
Tenants-at-Will,		1,276	1,231	Deduct 4 villages.	171	Balance 1,080	216	:
Average of cultivation in acres.	A. B. P.	6 1 28	56 32 28				0 8	:
Amount of land held by them in acres.		2,325	4,100	Deduct 4 villages.	214	Balance 3,886	ŧ	1,561
Cultivators having right of occupancy.		368	703	Deduct 4 villages. Deduct 4 villages.	47	Balance 656	•	788
Year.	,	1840,	1860,				:	:
Name of Pergunnah,		Bedowlee,					Decrease,	Increase,

The villages to be "deducted" as above are those of which the papers of the last Settlement are not forthcoming.

They have been included in this Statement to make it complete; but for purposes of comparison have been distinguished from the villages of which the records are forthcoming.

A. COLVIN, Settlement Officer.

No. 3.—Statement of Villages paying Rents in Money and in Kind.

Remarka,	In Statement No. 2 the total number of cultivators is columns 3 and 6 is 1,934. In this Statement the total of columns 6 and 7 is 1861. The odd 73 are in the village mentioned in column 3 of this Statement.
Cultivators paying rent in money.	904
Cultivators paying rent in kind.	1,46\$
Villages in which rent in kind prevails.	52 Se villages, in which only rent in kind prevals.  94 villages, in which both sorts of rent preval.
Whole villages in which money-rent was previously prevailing.	•
Total number of whole villages in which rent in money has been fixed instead of that in kind.	1
Total number of Villages.	10. 10.
Name of Pergunnah,	Bedowlee,

S. N. MARTIN,

Collector.

A. COLVIN,

Settlement Officer.

No. 4.—Statement of Pukka Masonry Wells used for Irrigation.

	· · · · · · · · · · · · · · · · · · ·
Remarka.	
Wells that are out of repair.	106
Masonry wells at the present Bettlement. Wells that are out of repair.	498
Pukks wells at the last Settlement,	874
	:
Name of Pergunnah.	:
Name of	ŧ
	Bedowlee,

S. N. MARTIN,

Collector.

Settlement Officer.

A. COLVIN,

No. 5.—Statement of various kinds of Crops grown at the time of measurement.

	Rezenta.	It will be observed that more than half the cultivated area is wheat. But the meavements were made in the year of drought when wheat was sown wherever it could be grown, and the rain crops were very scarce. The season in fact was an abnormal one, and the Khure effectops were very scarce.
1	Teessee (fax).	-
ł	M ustard.	<u>Q</u>
ł	Museoot, Kurur.	86
	Wheat and Gram.	
Rebers.	Wheat and Barley.	75
Ã	Gram.	3 18
	Barley.	1,049
	Wheat	11,430
	Kungnee.	101
	Shamakh	! !
-	Hemp.	64 :
	Moong.	· ·
	Tobacco.	A
1	.airoT	25
İ	lndigo.	34
	Indian corn (mukkee).	\$88
	Мавафар	
	Vegetablea,	163
	Сожагар.	
RREKT.	Til	
Кнуз	Bejre.	316
	Mote,	303
1	Оотид	551
	Jawot,	89
	Chuhora Moonjee (Rice).	34 4. ±.
	Dhan (Rice).	4
	Сритгее.	114
	Cotton.	98.20 98.20
	Sugar-cane for the next	<b>6</b> 1
	Sugar-cana.	673
	Cultivated area in acrea.	30,544
	Mame of Perguinnals.	Bedowlee

A. COLVIN, Settlement Officer.

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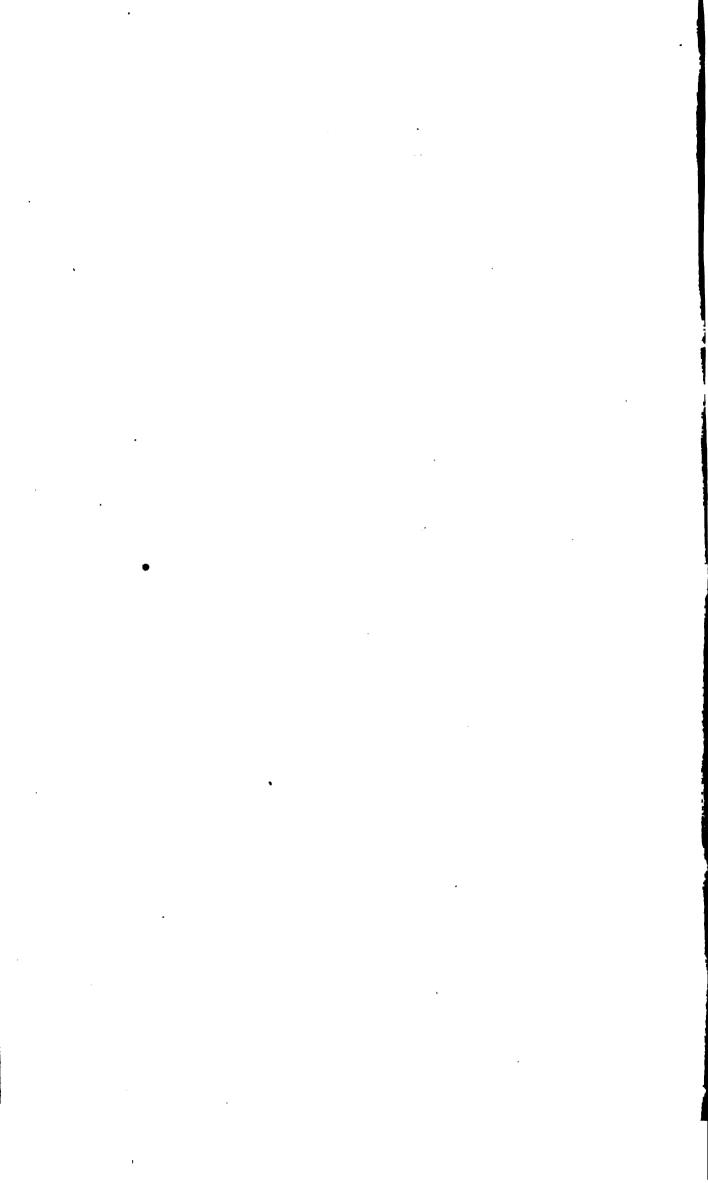
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## SETTLEMENT REPORT AND STATEMENTS

OF THE

## DISTRICT OF MOZUFFERNUGGER,

## FOR THE YEAR 1866.

1. According to the returns now prepared at this revision of Settlement, the total area of the district is 1,033,468 acres.

Unassessable	Barren Waste, Rent-free,	•••	···	•••	152,575 3 <b>2</b> ,789
Assessable,	Culturable, Cultivated,	•••	•••	•••	19 <b>7,931</b> 650,173

2. At the Settlement under Regulation IX. of 1833, completed in 1840, the area was—

Total,	•••	•••	•••	•••	691,706
Barren Waste,	•••	•••	•••	•••	113,461
Rent-free,	•••	•••	•••	•••	17,911
Culturable,	•••	•••	•••	•••	167,957
Cultivated,	•••	•••	•••	•••	392,377

* Pergunnahs.

3. The following minor sub-divisions* were in 1842 transferred to this district:—

	F	ROM MEE	RUT.		Area.	
Kyrana,	•••	•••	•••	•••	55,210	Acres.
Kandhla,	•••	•••	•••	•••	64,323	"
Boodhana,	•••	•••	•••	•••	50,492	"
Bhooma Sumbul	hera,	•••	•••	•••	81,274	"
Shikarpore,	•••	•••	•••	•••	63,799	"
	Froi	u Saharu	INPORE.			
Thana Bhowan,		•••	•••	•••	57,414	••

making the area

691,706 372,512

1,064,218

Since then, sundry minor transfers have occurred by diluvion and otherwise of estates from and to adjoining districts. *

372,512

4. In the memo. on the statistics of the North-Western-Provinces, printed in 1848, the area of this district is stated to be—

Total,	•••	•••	•••	•••	1,034	, 899
Barren Waste,	•••	•••	•••	•••	160,227	
Rent-free,	***	•••	•••	•••	41,473	
Culturable,	***	•••	•••	•••	213,129	
Cultivated,	•••	400	•••	•••	620,070	

^{*} The details of these are not given here, as they would swell this Report unnecessarily.

5. In the Census papers of 1853, the following are the entries:

Total,	•••	•••	•••	•••	1,053,641
Barren Waste,	•••	•••	•••	•••	153,717
Rent-Free,	•••	•••	•••	•••	76 <b>,2</b> 87
Culturable,	·	•••	•••	•••	153,173
Cultivated,	•••	•••	•••	•••	670,468

6. The earliest return with which the satistics of the revised Settlement can be compared is that of 1848. The following is the result of the comparison:—

		TOTAL A	REA.		•
In 1848,	•••	•••	•••	•••	1,034,899
Now,	•••	•••	•••	•••	1,033,468
	L	ess now,	•••	•••	1,431
	В	ARREN W	ASTE.		
In 1848,	•••	•••	•••	•••	160,227
Now,	•••	•••	•••	•••	152,575
	I	ess now,	•••	•••	7,652
		RENT-FR	EE.		
In 1848,	•••	•••	•••	•••	41,473
Now,	•••	•••	•••	•••	32,789
	L	ess now,	•••	•••	8,684
		CULTU	RABLE.		1
In 1848,		•••	•••	•••	213,129
Now,	•••	•••	•••	•••	197,931
	L	ess now,	•••	•••	15,198
	(	Cultivati	ED. *		
	han han N	Ιο <del>w</del> ,	•••	•••	650,173
ared with 1853 there in the cultivated as	rea of— I	n 1848,		•••	620,070
6	20, <b>2</b> 95 70,468 50,173	ŕ	More now	' <b>,</b>	30,103

This is accounted for further on; and it must be remembered that a large area of cultivated ground is temporarily left untilled on the eve of a Settlement.

* Compa a decrease

- 7. These statistics show that there has been an increase to the assessable area of rent-free resumed 8,684 acres; excess of cultivation, 30,103, since 1848.
- 8. But the earliest returns were incomplete and incorrect as regards rent-free holdings. At first all these were not surveyed. To get the actual difference of assessable area now, as compared with the last Settlement, the corrected returns of rent-free holdings must be taken, viz.—

* No additions have been made by	Those of	f the	Census	of 185	3.		
		•	•				32,789 32,789 33,498 ed 30,103 73,601
really held rent-free in former Settle	Less now,  To this must be added difference of cultivated area in 1865, compared	•••	76,287*				
ments.	It is no	w,	•••	•••	•••	76,287* 32,789 43,498  apared 30,103 73,601  shows the dif-	
			Less no	w,	•••	•••	43,498
To this must be added diffe	rence of cul	tivate	d area	in 186	5, com	ared	
1.7 4040		•••	•••	•••	·		30,103
The actual increase is,	•••	•••	•••	•••	•••	•••	73,601
from which enhancement of re-	venue may b	e ext	ected.	Appen	dix A.	show	s the dif-
	-	_					
revised Settlement in each min			720 anu	## Acres.  76,287*  32,789  w, 43,498  in 1865, compared  30,103			

9 The number of estates is 1,122.

10. The population at the different periods when census has been taken was as follows:—

	Agricultural.	Non-Agricultural.	Total.
According to printed memo. of 1848,	233,749	303,845	537,594
By Census of January 1st, 1853,	325,189	347,672	672,861
By revised Settlement Returns, 1864-65	, 242,724	<b>34</b> 8,973	591,697
By last Census in February, 1866,	280,872	401,340	682,212

- 11. The returns of 1848 and of the revised Settlement may be held to show the permanent residents of the district; those of 1853 and 1866 include every individual, temporary sojourner, and traveller. The first two were prepared by the village accountants; the last two are the results of most careful general census.
- 12. The return of 1866 confirms the fact shown in the revised Settlement Returns, that when the revision was in progress there was a marked diminution of the agricultural population, as compared with the number in 1853.
  - 13. This may be ascribed to the disturbances in 1857 and the famine in 1860-61.
- 14. In the first, many were killed in fights among the people themselves, many absconded and have settled in other parts of the country, and an inconsiderable number fell in engagements with the troops.
- 15. But the decrease principally occurred owing to the famine. In spite of the exertions made to save life and support the distressed population, there is no doubt that a large number died of destitution and consequent sickness; many removed to districts not affected by the drought; and though, perhaps, most of these have returned, some remained in their new homes.
- 16. The non-agricultural population was less affected, because in the anarchy the large communities were not so open to attack as small villages, and could be helped by the authorities; and in the famine, measures for relief could be better organized, and were therefore more successful in towns than they could be in scattered hamlets.
- The minor sub-divisions transferred in 1842 were also assessed in 1840.

  The amount of land revenue by the Settlement in 1840 * was Rs. 1,119,839; the assessment was then estimated to be 663 per cent., or two-thirds of the assets.
- 18. The revised demand is based on the principle of the Government share being 50 per cent., or one-half of the assets.
- 19. Had the former Settlement been made on this principle, the figures, instead of 1,119,839, would have been 839,879.
- 20. Comparing these last with the amount of the demand now fixed, which will be 1,140,644, including 10,094, the assessment on rent-free tenures which lapse on the death of the present incumbents, the increase of revenue secured by the late revision is 300,765.
  - 21. On the actual demand of the past Settlement the increase is 20,805.
- 22. Considering that the last Settlement was made on the principle of taking two-thirds of the assets, and on the revised assessment only half assets are taken, there should have been (all other elements remaining undisturbed) a decrease of about 180,000.
- 23. This subject will be fully entered into in considering the propriety or otherwise of the assessment in detail; but in this place it may be noticed that, in addition to the 73,601 acres mentioned above, from which an enhancement of revenue might be expected, 56,832 acres have been irrigated by the Ganges Canal, which was only in contemplation in 1840; and there has been an increase of irrigation from the Eastern Jumna Canal to the extent of at least 10,000 acres. The fact that there has been a slight increase instead of a great decrease of Land Revenue, on the adoption of a new principle of assessment, is thus generally accounted for.

- 24. The reason why there has not been so large an increase in this as will be secured in other districts is, that in some minor sub-divisions there has been no progress, but a falling off.
- 25. For instance, in Bidowlee, owing to the cultivators being principally of the Goojur tribe,—great thieves, but very bad tillers of the soil,—there has been a considerable decrease of cultivation, which has rendered a corresponding reduction of demand necessary. Again, in Goredhunpore, owing to a change in the course of the Soline, a large number of flourishing estates have become swamps; a large area in the valley of the Ganges has not only not improved but deteriorated.
- 26. Next to the extension of cultivation and irrigation, the comparative amount of produce obtained from the soil, according to the estimates of the last and of the revised Settlement, the average prices then and now, and the rates of rent paid by the cultivators to the landlord in 1840 and 1865, come under consideration.
- 27. There is no appreciable difference between the rates of rent, whether in cash or in kind, quoted by Mr. Thornton as ruling in his time, and those now ascertained by Mr. Martin to prevail.
- 28. A comparison of the elaborate table appended to Mr. Thornton's Report, printed in 1841, with the returns now prepared by the Settlement Officers, shows that there has been little if any improvement in the amount of produce—very little change in the system of tillage. The proportion then and now of the crops remains much the same.

The only observable difference is the great spread of sugar-cane. In 1841 the average percentage was 4, it is now 6. In only one sub-division it was 10, in one 6, in four 5, in the rest, 4 per cent., or less. Now in one sub-division it is 11 per cent., in three 8, in seven from 6 to  $7\frac{1}{2}$ ; in the other sub-divisions much as in 1841. The extent of this valuable crop is increasing annually.

29. Mr. Thornton's elaborate enquiries showed that the amount of produce accord-

*Appraisement is an estimate made by experienced men accustomed to judge by examination of the standing crop what the yield in each particular field is. ing to appraisements* made in the presence of European Officers was considerably higher than that entered in the papers of the landlords and village accountants. Mr. Martin's experiments show a similar dif-

ference. An attempt has been made in the course of the Settlement now in progress to ascertain what the produce actually is by cutting the crop off a certain area, and weighing it after it has been thrushed and winnowed. The result of this test was an enormous excess of produce above all previous estimates. This last test cannot be taken as the basis of a general average; the operation had to be superintended by European Officers. The Officers available were few. The area examined was therefore so small that no general conclusion could be drawn. Though the instructions were, that average fields and average crops should be selected, it is quite possible that the amount of produce was above the average. Again, it was of course necessary that the whole operation should be completed in one day; the weight of the grain may therefore have been very much more than it would have been had the usual length of time between cutting and weighing intervened, during which the grain loses weight considerably by drying. But this and all similar experiments tend to prove that the

In Mr. Colvin's report on the subdivision of Kundah, there are some interesting remarks on the perceptible difference between the condition of estates held by proprietary communities and those owned by individual landlords and cultivated by tenants at will. yield of the land is considerably greater than it is represented to be; and these tests and all produce returns lead to the conclusion that, as a general rule, the cultivator gets from 60 to 75 per cent. of the produce—from 25 to 40 per cent. being left to be

divided between the landlord and Government. In the case of careful cultivators and cultivating brotherhoods, their share would be still larger.

30. Messrs. Colvin and Grant were of opinion that there has been no rise in prices since 1841. Mr. Martin differs from them, and thinks that an allowance of 25 per cent. should be made in all calculations based on the value of grain. The following table shows the prices recorded by Mr. Thornton as the average of 20 years preceding his Settlement, and in juxtaposition the price-currents of the Shamlee for 24, and Mozuffernugger markets for 15, years immediately preceding the late revision. Mr. Thornton mentions that allowance has been made for the difference between the prices of the cultivators and the grain-dealers of the bazaars receive. He does not mention what allowance was made, and leaves it to be conjectured that the prices given are those received by the cultivators. The ordinary difference between the price which the cultivators received and what the purchasers from them demand on bringing the grain into the market is estimated to be 10 per cent., which has been deducted from the prices given by Mr. Martin.

Table shewing Average of the Prices current in Mr. Thornton's time and now.

			Average of past 24 years in Shamlee Market.		
Wheat,		364	26	271	
Gram,	•••	421	28	311	
Barley,	•••	541	38 38	44 38	
Rice, Fine Rice.	***	51 <u>1</u> 42	32	71. <b>*</b>	*In this entry the
Moong,	•••	31	28	26	very finest rice is
Jowar,	•••	44]	32	- 301	evidently meant-
Bajra,	•••	48	311	33 -	not the kind quoted
Mote,	•••	401	31		in the other columns

This table shows that Mr. Martin is decidedly right in believing that there had been a great rise in prices, and that Messrs. Colvin and Grant were in error in this one matter. Mr. Thornton expressly mentions that the weight adopted by him was the seer which weighed 90 Rs., the standard of which was from 171·198, to 173 grains troy. The weight in the latest price-current is 88 Government rupees, or 92 Furruckabad oblique rupees, to the seer.

An idea that the revised assessment of this district has been very moderate—indeed, inadequately light—has spread among the people and officers of other districts, and may have reached higher authorities. In the Boolundshuhur District the universal answer to enquiries as to whether the assessment there was fair is, "that the demand is moderate and just, and therefore unobjectionable; but not so light as in Mozuffernugger."

This has led to the preparation of the table, Appendix B., in which the rates of assessment in the assessable area of three districts*—viz., Mozuffernuggur, Saharunpore, and Boolundshuhur—are shown.

assessment has been deternined, Dehra Doon being excluded as anomalous.

The first five entries in that table are minor sub-divisions of the Mozuffernugger District.

In other words the rate of assessment is higher in those sub-divisions than in any part of either of the two other districts.

The Saharunpore entries are according to Mr.

Vans Agnew's assessment. The revision will give higher rates.

31. The last three entries,—i. e., the lowest rates of assessment—are also in sub-divisions of Mozuffernugger District; but these are Bidowlee and Goredhunpore mentioned above, and Bhooma Sumbulhera, a tract intersected with sand-hills, and partly consisting of waste lands in the valley of the Ganges.

32. The other sub-divisions of Mozuffernugger take place in the table in juxtaposition with what may be generally called corresponding tracts in the other districts.

33. The correctness of this idea of under-assessment, therefore, is not confirmed by this general comparison.

On the contrary, it is evident that the idea, though it may have been based on some isolated facts, is generally incorrect.

34. The rate of the incidence of the new assessment on the assessable area in the

This difference is accounted for by the fact that in Boolundshuhur generally, and in the subdivisions particularly referred to, sugar-cane is not grown, while in the Shamlee sub-division 8 per cent. of the area is under cane.

highest assessed sub-divisions of Mozuffernugger is Rs. 2-4-5\frac{3}{4}
per acre, while the highest rate in the other districts (i. e., in
Boolundshuhur) is Rs. 1-9-8\frac{1}{4}.* Again, then, it may be generally asserted that there is no reason to suppose that the interests of Government have been sacrificed. The more these Settlement proceedings are criticized in detail, the greater is the
proof of this which is forthcoming.

- 35. Appendix C. shows the former assessment, what the actual decrease of demand should be in each sub-division in consequence of the reduction of the share of the assets now taken by Government, the amount of Revenue now demanded, and the extent to which the results of the new assessment differ from what should have been the result had the demand simply been reduced by 16 per cent.
- Appendix A.* shows the state of the details of the area of above.

  Appendix A.* shows the state of the details of the area of each sub-division in 1848 and 1865.

Appendix D., the comparison of the area irrigated then and now.

- 36. In the sub-division of Bidowlee the reduction made is greater than what is due to the new principle of assessment. It has already been stated that there has been a considerable decrease of cultivation.
- 37. In Goredhunpore the difference between the actual results and the reduction of 16 per cent. is very small.
- 38. In Jhunjhana the reduction should have been 9,480: it has been 6,358. The reason why a further reduction of 3,122 was not granted must be sought.

The statistics show a large decrease of cultivation; but Mr. Colvin reports that lands were lying uncultivated in the year in which the measurements were made, owing to the famine; and that the cultivated area, including recently abandoned, is only a little less than that of the last Settlement. There has been an increase of irrigation from the Eastern Jumna Canal of 2,305 acres. There were at the last Settlement 782 wells: there are now 808.

Here are, therefore, general indications that the statistics convey an erroneous impression of the actual status of the sub-division, and that there may be found in the increase of irrigation sufficient reason for stopping the reduction a little short of the 16 per cent. figures. Mr. Colvin's remarks on the No. II. Statements leave no doubt that the assessment is a fair one.

- 39. The next sub-division is Bhooma Sumbhulhera. Apparently the change from the two-thirds to the half asset principle required a further reduction of Rs. 6,034; but the statistics show an increase of cultivation to the extent of 9,990 acres, and the Ganges Canal has commenced to afford an entirely new source of irrigation. This fully accounts for the results.
- 40. The circumstances of Churthawul are nearly similar: the further reduction should apparently be Rs. 6,327; but there has been an increase of cultivation of 4,763 acres, and 1,235 acres, formerly rent-free, have been by resumption added to the assessable area—making a total of close upon 6,000 acres from which enhancement of Revenue may be expected. The area formerly irrigated by the canal is not ascertainable; only a small portion of the sub-division has the benefit of canal irrigation, to the extent now of 2,611 acres. There has been most probably here, as everywhere, owing

to excellent management, an extension of irrigation from the Eastern Jumna Canal; and altogether there is no reason to doubt that the revised assessment is proper.

41. In Boodhana, where the 16 per cent. principle would point to a further reduction of Rs. 6,729, there has been an increase of cultivation of 1,616, and of resumed rent-free land assessable of 169; total, 1,785.

Here general statistics would indicate that there should have been further reduction; but a reference to the No. II. Statements must dispel the idea. In half the estates of the sub-divisions the village papers give a rental fully double the assessed demand. In almost all the other estates this is very nearly the case, or so nearly that there can be no doubt as to the moderation of the demand. It is universally acknowledged that, though these village accounts are not trustworthy, it is because an attempt is made to conceal the assets by understating the outturn of the harvests. They never show a larger crop or greater rental than has really been secured. In the few cases in which there is no mention in the remarks in the No. II. Statement of the village rent-roll, there is palpable proof of the lightness of the assessment.

- Mr. Keene's proceedings were carefully scrutinized by Mr. Martin, after the acquisition of considerable experience. In one case only was a reduction of Mr. Keene's demand thought necessary.
- 42. In the sub-division of Bugra, though there has been an increase of cultivation of 2,604 acres, and an increase of assessable area of 551 from resumption of rent-free holdings,—total, 3,155 acres,—to account for increase of assessment, and in a portion of the tract improved canal irrigation, and a reduction of demand to the extent of Rs. 4,671,—still, seeing that at 16 per cent. the reduction should have been 9,000 more, and the tract is for the greater part unirrigated, a doubt is engendered as to the possibility of the demand being really at half asset rates. But an examination of the No. II. Statements must dispel this. There are 75 estates altogether: in 25 the village papers show that the rental is fully or nearly double the demand;—in five the cash rates fixed shows the same;—in 20 estates the former Revenue has been so far reduced as to leave no doubt that the limit of half assets has been reached;—in all the remaining estates the remarks show that the demand is moderate. In only one estate does the assessment appear to be too high, viz., Kazee Khaira, No. 42. In this estate the cash rent-roll has been fixed under the operation of Act XIV. of 1863 at Rs. 1,577-10-6; the revised demand is Rs. 970-0-0.

Here the margin left to the proprietor is too small. Mr. Martin anticipates a rise in rent which will give the landlord the full half share. It is doubtful whether a demand should be based on such anticipation.

43. The statistics show that in the sub-division of Thana Bhowan there has been a great apparent decrease of cultivation compared with the returns of the last Settlement; but this is owing to a large area lying uncultivated in the year of measurement—the temporary result of the famine. There has been a considerable increase of canal irrigation (above 3,000 acres more are irrigated now than in 1840); but this is the only source from which increase of Revenue could be expected; and it would appear that there ought to have been a much larger reduction of demand.

But in 21 estates the demand has been reduced; in 28 all the calculations show that assessment must be fairly at about half asset rates; in 6 the village papers show that it is so clearly; in 9 cases there may be a doubt whether the assessment may not be above the mark—these are Nos. 1, 13, 15, 14, 21, 28, 30, 50, 59. No. 30 should hardly be included, as there is a large culturable area—554 acres. But Mr. Colvin is so confident that he has reduced the demand throughout to half asset rates that, even where his remarks in No. II Statements leave a doubt, it may be assumed that he had good grounds for maintaining the old demand.

44. In the sub-division of Kyrana there has been an increase of cultivation of

* Mr. Colvin makes out the canal irrigation area in 1862-63 to be 10,078 acres; but I have taken the canal returns of 1863-64 throughout. 4,526 acres, and 3,130 acres of resumed rent-free land has been added to the assessable area. Canal irrigation has been extended—there being now 4,175 acres,* against 818 at the last Settlement. There is therefore no reason to suppose that the slightly enhanced assessment does not leave the landlords

their full 50 per cent. Mr. Colvin asserts that the former demand was very light, and that he has kept his down below the proper standard, partly because the land is mostly owned by Goojur brotherhoods.

45. In the sub-divisions of Khatowlee, Jansuth, Poor, Chapar, Bookuhera, and Mozuffernugger—in which, instead of any reduction, there has been an increase of demand—the Ganges Canal water-courses have been spread through the land since the last Settlement, giving irrigation where there was none before, and causing an increase of cultivation as below:—

Sub-Division.			Increase of cultiv area of resume	vation, including sd rent-free land.	Increase of Irrigation.		
Khatowlee,	•••	•••	1,965	Acres.	12,217	Acres.	
Janauth,	•••		7,875	,,	15,596	,,	
Poor,	•••		3,531	,,	13,287	,,	
Bookuhera,	•••	•••	7,415	,,	9,995	"	
Mozuffernugg	er,	•••	12,299	,,	11,622	,,	

It is clear, therefore, that where the increase of demand has been greatest there have been new assets in abundance to meet it.

- 46. Three sub-divisions remain to be considered—Shikarpore, Shamlee, and Kandla.
- 47. In the first there has been an increase of cultivation and assessable area altogether of 5,375. There is no record of the irrigation at the end of the last Settlement. The return is now 2,414 acres.

The increase of assessable assets hardly accounts for an increase of demand of Rs. 2,751, when at 16 per cent. the decrease should have been 16,000. But the village papers show that in 36 estates the rent-roll is fully, and in 12 very nearly, double the assessment now fixed; in three estates the reduction granted shows that the half asset limit has been observed; in the remaining cases the different calculations show that the demand is not more than half of the assets. Generally, therefore, the people themselves, by their own papers, acknowledge that the assessment is fair—indeed, moderate.

48. The case of the Shamlee Sub-division is singular. There has been no increase of cultivation, nor of irrigation, area of prices. According to Mr. Colvin (though in this he is wrong), with this last exception, everything apparently has remained stationary since 1840; but still the Settlement Officers, instead

of reducing the demand by Rs. 19,200, lower it only by Rs. 259. The land is for the most part held and tilled by Jat brotherhoods. The village papers of such brotherhoods are never to be trusted, and have not therefore been referred to. But that these Jat brotherhoods secure from the ground very much more than double the Government demand may be shown by one instance. The gross produce in Bhynswal was proved by very careful calculations to have been in the famine year about Rs. 1,00,000—Mr. Martin says Rs. 80,000, and that the net rental in that year must be taken at Rs. 20,000; but the most trustworthy account made it the larger sum, and the estimating of the net rentals, when the proprietors are the cultivators, at one-quarter is hardly correct. Supposing the estate belonged to one individual, who divided the crop with his cultivators at the generally prevalent rate, his share would be nearly half the produce.

The table of prices of grain for 24 yearss shows that prices were doubled, and with respect to some articles trebled, in the famine year. Allowing that the produce in that

year was one-third above the average, and making allowance also for prices being at three

* It is not proved that the produce in the famine year was so much above the average; and the table shows that the difference of prices was not so great. times the ordinary standard, and therefore deducting one-third from Rs. 1,00,000, leaving say Rs. 66,000, and taking only one-third of that sum, the out-turn of an ordinary year may be safely calculated at Rs. 22,000. The Government demand is about one-third of that. There is no reason to think that this sub-

division is over assessed; the only cause for apprehension is partial injury by flooding the soil with flush irrigation, and thereby raising the level of the springs even to the submergence of the surface. If, as has been recommended in a separate Report, No. 471, dated 24th August last, the supply of canal water is turned from such tracts to high-lying soils, urgently requiring irrigation, this sub-division should be a most flourishing one.

49. The greatest difference in any sub-division between the demand as it would be, deducting 16 per cent., and the actual revised demand, is in Kandhla, where it is Rs. 26,650. To set off against this, there is an increase of cultivation and of assessable area from resumption of rent-free land of, altogether, 11,146 acres; and there has been an extension of irrigation, according to Mr. Colvin, at the time of measurement, of above 15,000 acres. The returns of 1863-64 make the increase not so many hundreds.

Mr. Colvin remarks, with reference to his assessment,—" The Cis-Kursumee vil
"lages" were very unequally assessed; the Trans-Kursumee

"mostly very much under-assessed. In the qusbah† Sir H.

"Town of Kandhla.

"Those whose rent-free holdings have been resumed.

"could not ascertain, had been under-assessed. Much as I "raised the demand, I still left more than half assets in the "raised the demand without hesitation."

And further on he writes,—" On the whole, it has been the most highly prosperous "pergunnah I have seen."

The village papers shew in a considerable number of cases that the demand is at the half asset rate. In two cases—Dangror and Futtehpore Kheree—the people will get more than half the assets. In some cases, where the rents have been fixed under Act XIV. of 1863, this is also the case.

- 50. From the remarks above, and a careful examination of the No. II. Statements, it must be concluded that two-thirds of the assets were not taken at the last Settlement, and that there is no reason to suppose that more than half assets are taken now. Cases may be selected in which the demand apparently should be raised; and a few may be found in which reduction might seem to be necessary. I have not interfered in the first, because Mr. Martin states that, when the profits do not exceed 150 per cent., Mr. Muir considered the Settlement Officer's assessment should not be revised; but the estates in which alteration might be made have been noticed in remarks in No. III. Statements; and if the Board should now be of opinion that in such cases, and in the few cases where there is an appearance of over-assessment, the demand should be altered, this can be done, in concert with the Collector, in a very short time.
- 51. There are returns appended to the statements of some sub-divisions of the results of the conversion of rent in kind into cash rent under the operation of Act XIV. of 1863. Some entries in these show a much smaller percentage of profits to the landlord than he is entitled to; these will generally be found to be cases in which the cultivators, under a provision of the past Settlement, were allowed to pay to the landlord only 18 per cent. on the Government demand, in lieu of ordinary rents—an anomaly which has been at this Settlement corrected.
- 52. In these cases the cash rents now fixed are still below the standard. The proceeding was of course excessively unpalatable to the cultivators; and the consequence of attempting to put them at once on the same footing with ordinary cultivators would have been a general exodus and the ruin of the estates. A middle course was therefore followed, by which the cultivators were brought gradually into their new

position. In all these cases this has been recorded in the proceedings; and when the cultivators have got accustomed to the new burden, the landlords will be entitled to have their rents enhanced to the proper standard. In the meanwhile they are getting 50, or 60, or 70 per cent., instead of 18 per cent., on the Government demand.

- 53. In the most prominent cases in which the percentage of profits appeared palpably to be too high or too low, further explanation was required from the Collector. Mr. Martin's further remarks will be found appended to the No. III. Statements: they show that he has considered the peculiar circumstances of each estate most carefully, and will enable the Board to judge whether the assessment should stand or be modified.
- 54. It is impossible to assess every estate so accurately that the shares taken by Government and left to the landlord shall in every case be exactly balanced. Even if such rigid correctness could be attained, there would be no permanency. A liberal expenditure of capital on the part of a landlord, or intelligent and energetic exertion by a brotherhood, might increase the assets, and thereby enhance their share—the Government demand being limited; or mismanagement and dissensions may reduce existing assets, and leave a smaller margin of profit to the proprietors. Mr. Martin has evidently done his best, as far as it is in the assessing officer's power, to guard against undue pressure of the Government demand, even under adverse circumstances, wherever there is danger perceptible; and to secure to the landlord his full share, provided the most ordinary arrangements are made for the proper tillage of the lands. The tacit consent of those concerned, who have made no objections to the Settlement*
- *There have been only 17 cases of appeal to the Commissioner regard ing the assessment throughout the Settlement of 1,123 estates.

—the universal opinion of the people of neighbouring districts —indicate very satisfactorily that the assessment is moderate. That it should be so is the order of Government, and has been the constant care of the District Officers. At the same time, as sundry Notes in the Nos. II. and III. Statements will show, the

is room, a great increase of irrigation by judicious canal

management, * improvements in agriculture in every way-by

introduction of machinery, of better breeds of cattle, of new

and better seed, and the adoption, where applicable, of more

revising officers have been also careful to see that a fair share is secured for Government.

- 55. It is to be hoped that, with still further extension of cultivation, where there
- * Pergunnah Reports.—
  i. e., a still further enhancement of the rate of water-rent, which would induce all who can to have recourse to irrigat i on from wells, and have the canal water for tracts where the construction of wells is difficult and irrigation from them expensive; and the saving of water by the introduction of irrigation by small channels to small compartments, instead of flushing whole fields.

scientific treatment of soils and crops—the utilization of all the land available for plantation of trees, &c., &c., the profits of the proprietors may be largely increased, and the burden of taxation which custom has made bearable may be reduced to a rate somewhat less startling to European ideas.

56. If, in the course of events, the contribution of the agricultural community to the general Revenue of the country

were reduced from the rate of 55 + per cent of the assets to even 25 per cent., this

- '† This is including cesses for maintenance of roads and schools, and interior postal arrangements, and, watch and ward of villages, which are taken over and above the Land Revenue.
- would surely be a most desirable conclusion.

  57. The universal recognition of the right of the ruling power, as sole lord of the land, to any share in the produce which tenants could pay, has induced a habit of thought on

the subject, which has reconciled the people in former days to a still higher rate of assessment, and makes them feel that in the Settlement now reported the demand of Government is really moderate; but, when considered from another point of view—the limitation of the right to a much lower standard than has ever been adopted or thought of—should not appear objectionable.

58. The British Government has given up the position taken by the ancient Kings, has admitted the old occupiers to be proprietors of the lands, transferring to them all proprietary rights. What was originally the imperial landlord's share is now really in the shape of a tax upon land—the amount which the landlords contribute to meet the national expenditure.

- 59. If the non-agricultural members of the general community were called upon to pay even 25 per cent. of their income, it would be very soon acknowledged that the tax on land, even at this reduced rate, was sufficiently high.
- 60. If the whole of the teeming population of India were subjected to a direct taxation, at the rate of Rs. 2 each, which is about the average really is age rate of incidence per head of the assessment in this district, there would be no necessity for maintaining anything approaching to the old rate of Land Tax; and when considered in this light, the probability of the Government share in the produce of the soil falling eventually far below what has hitherto been held to be its right, would not only be contemplated without apprehension, but would be accepted as a mere measure of justice to those who have long borne a heavy burden. Even if the agricultural community should come eventually, by the application of capital and labor, to retain a larger proportion of the assets than it is now intended they should, and thus cease to pay directly the percentage which is now
- exacted from them, they would help to swell the growing inmunity should be exempted from direct taxation.

  come from indirect taxation†—the Custom dues on exports and imports, Stamp dues, Excise dues, Salt Tax, &c.—and would thus contribute as much perhaps as could be levied from them at any future Settlement.
- 61. The introduction of the system long ago adopted in Bengal—the permanent limitation of the assessment—should not be viewed with apprehension, nor as an unwarrantable sacrifice of future Revenue.
- 62. The margin of culturable area in the whole district of Mozuffernugger is under 20 per cent; what is still left to be brought under cultivation is generally inferior soil. The backward sub-divisions, in which there is a larger proportion, have been excepted, and in these temporary Settlement is proposed. In isolated estates in which the culturable margin is above the average, a fair and moderate addition to the demand, which would be fixed according to present capabilities, has been made in anticipation. When this is not agreed to, temporary Settlement has been proposed; when the enhanced demand is accepted, the objection to limitation ceases.
- 63. In these Settlements in the North-Western Provinces now in progress, the evils which resulted from the too hasty adoption of the system in Bengal have been avoided. Here there has been a professional survey of the country: the boundaries and areas of all estates have been ascertained, and carefully recorded. Field maps, showing every field, every uncultivated patch, every orchard or garden, every pond or water-course, the village site—in fact, every portion of the estate in full detail,
- plotted to scale and admirably executed, have been pre-† There are not universally such perfect maps of estates in England. pared.‡ In these Index maps every field or plot is numbered. A list of fields, with corresponding numbers, forms part of the record: in this list the number of the field, the details of measurement, the name of the field, the name of the proprietor and cultivator, the area, the rent, are Records of right, showing the tenure, share, or position of every all recorded. proprietor, sub-proprietor and cultivator, have been carefully prepared. Village administration-papers, or bye-laws, noting the customs and rules for village management, present and future, providing for all contingencies connected with transfer of right by sale and purchase; mortgage; the rules regarding right of pre-emption, partition, succession, election of managers—are entered. In short, whereas in Bengal nothing was known, or hardly anything was known beyond the amount of demand which was made permanent, here in the North-West every atom of information which can be required is immediately forthcoming.
- 64. The political advantages of making the Settlement now concluded permanent can hardly be overrated. Though some ignorant men may not now appreciate the measure, even they will in time, as all the more intelligent do now; and when the mass find themselves gaining year by year larger profits, and that they are better off than they ever were before, or are likely to be under any other government, and know that this prosperity will not be interrupted by their present rulers, but is owing to them,

and probably dependent on the continuance of the rule, they will not be anxious for any change. Ensured, by limitation of demand, of the enjoyment of all the profits that can be secured, they will set to work to improve their estates, and become well-to-do, and therefore loyal, subjects.

- The effect of the orders ruling that, to entitle a proprietor to claim permanent Settlement, there must be 80 per cent. of the area irrigated, will be to make the Settlement of every estate temporary. In ordinary seasons, when the rain-fall is favorable, the area irrigated will seldom be more than 50 per cent., even when canal water could be obtained for the whole area. The proportion of autumn crops and spring crops is about equal. With the exception of sugar-cane, cotton, indigo, and rice, the autumn crops are not irrigated: the other crops are generally left to be brought to maturity by the rain. The crops mentioned are exceptional;—some of them are grown, some are not, and the percentage of area occupied by such crops is small. Supposing all to be grown and all irrigated, the area so irrigated would not at present be 30 per cent. as a maxima; about 10 per cent. is a maximum. The spring crops irrigated may range between the same figures. Of course there may be exceptional, fortunately circumstanced, estates, where 80 per cent. of the area would be irrigated; but so few at present that, as a general rule, it may be said the offer of permanent Settlement would be withdrawn. In this district, though only the intelligent proprietors have shown anxiety to secure this boon, a considerable majority have accepted it.
- 66. In Boolundshuhur a very small minority have rejected it; about 90 per cent. have accepted it. The withdrawal now of the offer under any circumstances is much to be deprecated.
- 67. The number of estates in which the uncultivated area is less than 20 per cent., and which are fit for permanent Settlement, and the proprietors of which accept the offer, are 755. The Government demand which would be fixed in perpetuity amounts to Rs. 8,72,581. There are 60 estates the Revenue of which is Rs. 92,197, similarly in every way fit for permanent Settlement, and the proprietors decline it. Mr. Martin holds that they have the option of deing so. My opinion is that, where all the conditions qualifying for permanent Settlement exist, and the amount of assessment fixed by the Settlement Officers is the same, whether the arrangement is tempotrary or permanent, there is no option. Such estates should be declared to be settled in Perpetuity, and engagements should be taken accordingly.
- 68. The number of estates in which there is an excess of culturable land above 20 per cent., in which an addition has been made to the temporary demand on account of the excess, the proprietors of which have accepted the enhanced and permanent demand, is 24. The Revenue of these, including the addition, is Rs. 22,318.
- 69. There are 93 estates, bearing a Revenue of Rs. 71,466, not cultivated up to the mark, the proprietors of which refuse to engage to pay the enhanced demand.
- 70. 190 estates, the Revenue of which is Rs. 66,093, are proposed for temporary Settlement, as being altogether in too backward a state. In these are included the subdivisions of Bidowlee and Goredhunpore.
- 71. If the opinion expressed in para. is correct, the number and Revenue of the estates settled permanently and temporarily are as follows:—

Permanently Settled.						Number of Estates.	Total Amount of Revenue.
Altogether qualified, but Enhancement accepted, Temporarily settled,	the proprietors	decline,	•••		•••	755 24 60	8,72,581 20,730 92,197
				Total,	•	889	9,85,508
Enhancement rejected, Excluded as unfit,	•••	•••	•••		•••	9 <b>8</b> 190	71,466 66,093
				Total,		283	1,57,559
			TOTAL	GRAND,	,	1,122	11,48,067

- 72. The Settlement of this district was commenced under Mr. Keene, who set the work in train, and assessed and reported on the sub-divisions of Goredhunpore, Boorhanah, and Shikarpore—making in the opening and the conclusion of his report some interesting general remarks. The sub-division of Goredhunpore has had to be specially treated subsequently to Mr. Keene's operations, owing to the injury from the Solani River.
- 73. In Boorhanah and Shikarpore his work has stood well the test of revision and examination. Mr. Martin succeeded Mr. Keene as Collector, and has happily remained in charge, to bring the Settlement to completion; and most carefully and conscientiously has it been done.
- 74. Mr. A. Colvin and Mr. C. Grant, Junr., have aided in the work as Settlement Assistants, and have been most deservedly praised and thanked for their co-operation. Each officer has reported on the sub-division in which he especially worked. A reference to those reports will show not only the modus operandi of each, but with what care, diligence, and intelligence this most important duty of revision of Settlement has been performed. Every estate has been visited, every portion of every estate carefully examined, as the remarks on the statement show. Mr. Martin has of course supervised the proceedings of all, and has had repeated opportunities of revising his own work, and has been travelling among the people in every direction since it was finished, and feels confidence, and is justified in so doing, in the soundness of it.
- 75. The records of the proceedings, the reports and statements, have been inspected and approved by the late Senior Member of the Board during the progress of the work. All the papers have been most carefully examined by myself.—those prepared to prove the propriety of the assessment, not once, but repeatedly. Wherever doubt or questions have arisen, they have been carefully considered and answered; and I believe that full data for the final opinion of the Board and Government are forthcoming in the papers submitted.
- 76. The addition of such a heavy work as the revision of the Settlement of a district to the ordinary duties of a Collector and Magistrate involves an amount of application and physical exertion which must be undergone to be fully appreciated. To Mr. Keene, who for a short time had this extra labor, but particularly to Mr. Martin, who has borne the brunt of it, the thanks of Government will, I trust, be awarded; also to Messrs. Colvin and Grant, who participated in the work.
- 77. Mr. Martin mentions the Deputy Collectors, Rao Nanuck Chund and Mirza Vicar Alee Beg, most favorably. I beg to call attention to the remarks, in which I fully concur.
- 78. During the progress of the Settlement, the different officers in their reports have broached subjects which have been mostly disposed of as the work advanced, and which are therefore not now taken up.
  - 79. The orders regarding the canal irrigation subject have been obeyed.
  - 80. The outstanding balances are reported on in a separate Appendix.

F. WILLIAMS,

Commissioner.

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	Pergunnahs,	Total.	Cultivated.	Culturable.	Maâfee.	Barren.
1	Bidowlee, { 1848, Now,	59,323 55,224	27,416 20,544	20,546 19,545	3,821 <b>3,</b> 035	11,10 <b>1</b> 8,541
		4,099	6,872	1,001	766	2,560
2	Goredhunpore, { 1848, Now,	41,302 <b>39,8</b> 19	16,556 16,118	17,561 11,214	•••	12,049 <b>7,623</b>
		1,483	438	6,347	***	4,426
3	Jhinjhana, { 1848, Now,	59,986 57,436	85,125 25,011	18,986 16,744	4,399 632	9,040 7,485
		2,550	10,114	2,249	3,767	1,555
4	Bhooma Sumbul- { 1848, hera, Now,	81,274 80,185	41,215 31,225	33,295 26,054	97 80	16,657 12,836
		1,089	9,990	7,241	17	3,821
5	Churthawul, { 1848, Now,	59,044 58,092	44,349 39,586	7,497 7,192	1,774 539	9,540 6,659
		952	4,763	305	1,235	2,881
6	Boorhanah, { 1848, Now,	50,492 50,276	35,282 33,666	6,521 6,327	219 50	. 10,280 8,4 <b>2</b> 3
	·	216	1,616	194	169	1,857
7	Bugra, { 1848, Now,	<b>56,054</b> 55,460	42,038 39,434	·7,114 6,858	1,1 <b>9</b> 0 539	7,978 6,363
		594	2,604	257	551	1,615
.8	Thannah Bhowan, { Now,	57,414 55,069	39,313 27,692	11,746 9,252	6,389 597	9 <b>,242</b> 8,252
		2,345	11,621	2,494	5,792	990
.9	Kyranah, { Now, 1848,	57,545 55,210	33,642 29,116	16,506 16,135	4,2 <b>2</b> 6 1,096	6,301 <b>5,733</b>
	•	2,335	4,526	371	3,180	568
10	Khatowiec, { 1848, Now,	62,225 59,688	40,364 39,372	8,015 6,467	6,677 6,304	8,161 6,548
		2,542	. 992	<b>3,548</b>	378	1,613
H	Jansuth, { 1848,	61,971 39,241	48,763 40,983	10,767 5,837	1,227 1,1 <b>3</b> 2	6,264 6,239
		2,730	7,780	4,930	95	25
1.2	Poor Chuppar, { 1848, Now,	58, <b>6</b> 99 57,663	41,103 37,611	10,164 6,644	1,259 1,210	9,742 8,629
		1,036	3,492	3,520	49	1,113
13	Shikarpore, { Now, 1848,	<b>64,</b> 01 <b>5</b> 63,799	48,478 43,953	6,999 5,923	1 <b>,980</b> 1,128	10,867 8,477
		216	4,525	1,076	852	2,390
14	Bhookurheree, { 1848, Now,	84,204 77,163	47,864 40,913	20,115 18,975	2,088 1,624	15,277 14,511
		7,041	6,951	1,140	464	766
15	Mozuffernuggur, { 1848, Now,	68,397 61,021	41,917 39,314	8,328 8,228	12,628 2,932	8,227 7,844
		7,376	2,603	100	9,696	383
16	Shamlee, { 1848, Now,	65,018 64,767	45,752 45,455	8,446 7,199	1,022 922	11,191 9,798
٠.		251	297	1,247	100	1,393
17	Kandhla, { Now, 1848,	66,973 64,323	50,329 40,735	13,883 6,027	2,500 948	9,669 7, <b>2</b> 55
		2,650	9,594	7,806	1,552	2,414

Pergunnah.		District.		Remarks,	
				Rs. As. P.	
Shamlee.		Mozuffernugger.	•••	2 4 51	
Kundhla.		Ditto.	1	1 15 71	
Shikarpore,		Ditto,		1 14 4 <u>4</u>	1
Boorhana.		Ditto.		1 10 8	1
Bugra,	•••	Ditto.		1 10 71	1
Agouta.	•••	Boolundshuhur.		1 9 8	ì
Rampore.		Saharunpore,	•••	1 8 91	1
Burrun.	•••	Bulundshuhur.		1 8 24	i .
Nagul.		Saharunpore.		1 8 1	
Thannah Bhowun.		Mozuffernugger,		1 7 3	ì
Munglour,	•••	Saharunpore.	:::	1 6 114	]
Mungiour, Khatowlie.	***	Mozuffernugger,		1 6 6	ļ
Deobund.	•••	Saharunpore,	:::	i 6 31	ł
Mozuffernugger,	•••	Mozuffernugger.		1 5 9	i
Mozumernugger, Debace.	•••	Boolundshuhur.	***	1 5 2	1
	•••	Saharunpore.	•••	1 5 01	1.
Hurroura,	•••	Ditto.	•••	1 5 0	1
Seharunpore,	•••	Mozuffernugger,	•••		1
Jhinjhana,	•••	Boolundshuhur.	•••		1
Syannah,	***		***	• • -	i
Anoopshuhur,	•••	Ditto,	•••	1 3 114	
Poorchuppar,	•••	Mozuffernugger,	***	1 3 9 1	
Gungoh,	•••	Saharunpore,	•••	1 3 9 <u>1</u>	
Sooltanpore,	•••	Ditto,	•••	1 3 8	
Churthawul,		Mosuffernugger,	***	'1 '3 0 <u>i</u>	
Bhugwanpore,	•••	Saharunpore,	!	1 8 0	1
Khoorja,	•••	Boolundshuhur,	••• )	1 3 0	1
Surrawah.	•••	Saharunpore,	•••	1284	į.
Mozuffurabad.	•••	Ditto,		1 2 37	l .
Nukoor.	•••	Ditto	]	1 1 11 <u>4</u>	· I
Shikarpore,	***	Boolundshuhur.		1 1 11	]
Puhasoo,	•••	Ditto.	•••	1 1 7	ł
Jowlee Jansuth,	•••	Mozuffernugger,	•••	1 1 01	1
Kyrana,		Ditto.		1 0 8 <del>1</del>	i i
Jewur,	•••	Boolundshuhur.		1 0 14	l
Ahar,		Ditto,		1 0 1	I
Roorkie.	•••	Saharunpore,	1	0 15 10	1
Fyzabad.	•••	Ditto.	***	0 14 11	1
Bhookurheree.	•••	Mozuffernugger,	***	0 14 11 0 14 9 <del>1</del>	· .
Jewalapore.	•••	Saharunpore.	•••		1
Bidowlee.	•••	Mosuffernugger,	•••		ı
	***	Ditto,	•••	0 11 4	1
Bhooma Sumbulhera,	•••		•••	0 10 111	
Goredhunpore,	***	Ditto,	•••	0 8 2	1

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Assessment.		Former.	16 per cent.	Revised.	Difference between columns 3&4.	Remarks.
Bidowlee,		87,905	6,080	29,125	23,045	
Goredhunpore,		19,458	8,120	17,217	14,097	
Jhinjhana,		63,056	9,480	56,698	47,218	•
Bhooma Sumbulhera,		47,192	7,820	45,706	38,186	
Churthawul,		65,410	10,480	61,257	50,777	
Boorhana,		75,017	12,000	69,846	57,846	
Bugra,	•••	86,362	13,760	81,691	67,931	
Thannah Bhowun,		56,244	8,960	57,081	48,121	
Kyrana,		49,571	8,000	52,307	44,307	•
Khatowlee,		65,913	10,560	66,311	55,751	
Jansuth,		56,152	8,960	58,578	49,618	
Poor, Chuppar,		56,947	9,120	5,99,330	590,210	
Mozaffernugger,		59,974	9,600	6,88,442	678,842	
Bhookurheree,		53,507	8,560	60,770	52,210	
Shikarpore,	•••	1,06,052	16,000	1,03,301	87,301	
Shamlee,		1,20,306	19,200	12,057	7,143	
Kandla,	I	1,00,759	16,000	1,11,410	95,410	

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D		Irrigat		
Pergunnahs.		Thornton's Settlement.	Now. 1863-64.	Remarks.
Poor,		None,	13,287	<del></del>
Bhookurheree,	•••	Ditto,	9,995	
Bhooma Sumbulhera,	•••	Ditto,	214	
Mozuffernugger,	•••	Ditto,	11,622	
Khatowlee,	•••	Ditto,	12,217	
Jowlee Jansuth,	•••	Ditto,	7,714	
Thannah Bhowun,	•••	Canal, 3,590	6,775	
Jhinjhana,	•••	Ditto, 1,151	<b>3,4</b> 56	
Churthawul,	•••	Not ascertainable,	2,611	
Shamlee,	•••	10,086	9,641	
Kyranah,	•••	818	4,993	
Kandla,	•••	15,060	16,276	
Boorhanah,	•••	Cannot be ascertained,	10,881	
Bugra,	•••	Ditto,	<b>3,</b> 811	
Bidowlee,	•••	Ditto,	•••	i:
Goredhunpore,	•••	Ditto,	***	}
Shikarpore,	•••	Ditto,	2,414	Ī

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	Vegetables.	:::5::5:::::5:55575	#	a
	Chillies.		! ! !	<u>.</u>
	Neel (indigo).	: : : : : : : : : : : : : : : : : : :	#	-
	Турокее.		8	<u>:</u>
	Sunns (hemp).		ਰ ਹ	· :
	Lobya		:	<u>:</u>
	Oord		₹19	80
	Jower and Mash.	88	8	-:
	Сранотар.	:2 : : : : : : : : : : : : : : : : : :	8	-
	Moongee (rice).	9:::00::024020::::	24	-
	Капұлее.	; 0 : 10 : : : : : : : : : : : : : : : :	8	:
	Chens.	: :0 : : : : : : : : : : : : : :	õ	:
	Gowara.	::: o :: a :: - o :: o ::	ğ	10
	Kunkur.		<u> </u>	<u>:</u>
HEN.	Shamak and Kuddoo.	**************************************	7.3	•
Khureep	Kunwara Ditto.	*::::::::::::::::::::::::::::::::::::::	#	8
	Motee Bugra.	*** : : : : : : : : : : : : : : : : : :	=	:
	Kowar.	: ⁷ :::::::::::::::::::::::::::::::::::	तं	-
	Kunwata		27	94
	Moong.	7::::000000:0::::::	8	1
	Urbur.		8	
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	Gajur (cerrot).	5 5	1 8	<u>:</u>
	Mash.	01 02 02 03 03 04 05 05 05 05 05 05 05 05 05 05 05 05 05	<b>3</b>	61
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	Jowar.	4 4 0 8 4 7 8 8 8 8 8 7 1 1 8 8 8 9 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2	-
	Mukkee (Indian corn).	000000000000044444	464	<b>A</b>
	Cotton	andadad and and and and and and and and	578	ေ
	Dhan (Rice).	311110110 a00		-
	Сритгее.	84 101101101101101101101101101101101101101	1691	6
	Sugar-cane for the next year.	dana : : : : : : : : : : : : : : : : : :	181	7
	Sugar-cane.	<b>GGG4370016G816438</b> 334 -	1701	9
		000000000000000000000000000000000000000	<u>                                     </u>	
			<del></del> -	
		e e	:	:
	Pergunnah.	Mozuffernugger, Bugra, Poor Chuppar, Churthawul, Boorhana, Shikarpoor, Kandlah, Jowlee Jansuth, Khatowlee, Bhokurheree, Khatowlee, Khatowlee, Thannah Bhowun, Kyrana, Jhinjanah, Thannah Bhowun, Bidowlee, Gordhunpore,	Total,	Average,
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	Mustard.		ç	:
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RUBBER	. Сосрапее.	::5::::::::::::::::::::::::::::::::::::	76	:
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	Chunna (gram).	7.120.22.22.20.22.24.4.4.22.24.4.4.22.24.4.4.4.	73	4
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	Barley.	41.821.924.924.924.924.924.924.924.924.924.924		
	Wheat.	288 254 224 221 221 238 238 105 105 447 447 447 447 448 468 468 468 468 468 468 468 468 468	5363	31
			i	:
	Pergunnah.	Mozuffernugger, Pugra, Poor Chuppar, Churthawul, Boorhana, Shikarpoor, Kandlah, Jowlee Januth, Shawowlee, Bhooma Sumbulhera, Bhooma Sumbulhera, Shamlee, Shamle, Jhinjanah, Thannah Bhowun, Bidowlee, Goredhunpore,	Total,	Average,
!	,	5 s		

Produce Table. - (Concluded.)

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Average of 15 years. ä Total စ္တ 6 63•6**₹•** Ħ -ဗ္ဗ σά 1862-63. Ħ Bazaar Prices for the last Fifteen Years for the Town of Mozuffernugger (obtained from the Chowdree of the Bazaar). œ 1861-69. Ħ σά Ξ Ξ 19-0981 Ħ ~ ä 4 ൎ 1828-60 Ä Q œ 1828-201 į -œ 182-4981 --Ħ ø 1886-57. -~ -Ä ន σά **22-2**6. -Ä g 18<del>24-</del>22° Ä œ **2**3-24 ĸ -R ဗ္ဗ ಜ တ် 1825-23' Ė αż 1821-23 Ķ. Þ ~ g 1820-21 ~ ij _ ~ G ន្ល တံ 1849-20 Ä : : Ξ, : : : : ፧ : Khureet. Babbee. Description of Grain. . . : : . : ፧ i : Moong, Jowar, Bajra, Wheat, Barley, Gram, Dhan, Oord, Rice,

24 years. ଷ Average 10 ¥ Fractions not calculated. က တ် Total ¥ ផ = øż 1863-64 Ħ g 왚 1862-63. Ħ œ Ξ Z .1861-62. Ħ Bazaar Prices of Grain for the last Twenty-four Years for Quebak Shamlee (obtained from the Chowdree of the Bazaar), minus 10 per cent. တ် œ -œ ឌ 윉 œ -Ξ 1860-61. Ħ ø ដ g 1828-60 Ħ _ αį G, 얾 臼 1828-29° 넒 C œ × ю 189-1981 Ä ~ 1826-57. × _ œ œ C4 1822-26. Ä _ σò 1824-22. Ä øż 1823-24" Ä _ 0 17 6 1825-23 Þ -• 6 σċ -얾 1821-23° Ä _ _ က် 1820-21 _ _ Ħ κά S ន \$ 1849-20 Ä œ \$ * 18<del>48-4</del>6' Ħ S 涡 **184-48** ż 0 27 3, øż '4<del>7-978</del>I Ħ ø ë 1842-46. × αĎ ഉ 1844-46. _ Ħ ø ន š 1843-44 Ħ œ 넒 ଛ စ္တ 1842-43. × 굻 **-43**° Ħ 뭐 ø ଖ 1840-41. × Description Chuhora, Mustard, Grain. Mukkee Kurrur, Moong, Larys, Wheat, Barley, Gram, Musoor, JOWEL, Dhan, Bajra, Oord, Peas, Mote, KHOREER

(Signed) F. WILLIAMS,

From S. N. MARTIN, Esq., Collector of Moozuffurnuggur, to F. WILLIAMS, Esq., Commissioner, 1st or Meerut Division (No. 217).—Dated Moozuffurnuggur, the 29th July, 1865.

SIR,—After a careful consideration of the Board's Circular No. 10 of 1865, dated 26th July, and accompaniments, regarding the Permanent Settlement of the North-Western Provinces, published at page 416 of the Allahabad Gazette, July 26th, I find there will be very little alteration in the proposals already submitted to you for this district. The result will be this:—

- 2. Mozuffernugger belongs to the third class, having numerous estates fit, and others unfit, for a Permanent Settlement.
- 3. All estates now advanced up to the point of 80 per cent. of cultivation of assessable (i. c., malgoozaree) area, the jummas of which have been revised and their area exempt from fluvial action, might be declared permanent. Other estates with less than 80 per cent. of cultivation, in those cases only where the maximum jumma has been accepted, are liable to revision, according to paragraph 5 of the Board's Circular,—the half asset cultivated acre rate being used merely as a guide to the assessment of the excess culturable area, which must always be closely examined by the Settlement Officer. But where the maximum jumma has been refused by the proprietors no revision will be necessary: in these cases the initial jumma will be considered a temporary assessment for 30 years "under the ordinary rules," without any binding clause on Government—see para. 7, Board's Circular.
- 4. The estates liable to revision under the present modification, where the maximum jumma has been accepted, are:—

1	2	3	4	5
Pergunnah.	Name of estate.	Initial jumm <b>a</b> .	Maximum jumma already fixed to have come into opera- tion after 15 years.	
		Rs.	Ra.	
Boorhana.	. Hoosseinpore,	1,157	1220	Bukshools Khan and others.
Shikarpore,	17mmelnose	1 049	1,090	Zufroo and others.
Joules.	Dhandon	010	1,000	Sheo Lall and others.
Ditto,	Inversh	650	740	Hoossein Alee Khan and
Khatowlee,	Chundseena,	975	1,050	Bijjy Singh and others
Ditto.	Unhachmana	195	226	Girdharee and othera.
Ditto,	Simples"	800	900	Billy Singh and others.
Ditto.	Chalashassa	. 700	780	Mahomed Hussein & others.
Ditto.	Kukrala	. 465	500	Nuwab Ruhmut Alee Khan.
Bhooma,	Tinnenovo	300	360	Mahomed Hussein.
Ditto,	Tarme		700	Mehndee Hussein.
Ditto,	Qibrara	. 220	240	Nasir Hussein.
Thannah Bhowun,	Unbetha Yaqoobpore,	, -,	1,270	Munsoor Alee Khan.
Ditto,	Muhai Mushutta		3,730	Chundan Sing and others.
Ditto,	Tomelnovo		315	Gholam Hussein.
Ditto,	Alaanaawa		160	Ditto.
Ditto,	Humme Enttahnera		3,300	Oodeyram and others.
Jhinjhana,	Datasa Dawtahasa		287	Mehndee Hussein Khan.
Kyrana,	Bhookurheree,		200	Sheikh Mahomed.
Bugra,	Inkhan		1,750	Goolzara and others.
Ditto,	Nusseerpore,	1,600	1,700	Ranjee and others.
	Total,	20,029	21,618	

5. The backward pergunnahs altogether unfit for Permanent Settlement are Bidow-lete and Goredhunpore. I have recommended these be settled for ten years only; but under the present orders (paragraph 8, Board's Circular) I suppose the Settlement must be extended to twenty years, excepting of course those swampy estates in Goredhunpore handed over to the Canal Officers to drain. These, I presume, will have to be exceptionally treated whenever the Canal Department reports that the marshy lands have been fairly reclaimed.

- 6. All estates liable to fluvial action have been formed into separate mehals, in conformity to the Board's Circular No. 29, dated 7th December, 1864;—these will be temporarily settled, I take it, for not less than twenty years. Purely "Khadir" estates will all come within this class; but where nearly the whole estate is on the Bangur, only a small fraction of the area being in the Khadir, I would extend the privilege of a Permanent Settlement, if otherwise fit.
- 7. Paragraph 9 of the Board's Circular has already been carried out; so also has paragraph 10, where not inconsistent with the present orders.
- 8. If the above summary be correct, you will at once perceive there need not be much delay in remodelling the financial position of such estates as are in a condition to be declared permanently settled. I await your directions before I take any further steps in the matter.

I have, &c.,
S. N. MARTIN,
Collector.

From F. WILLIAMS, Esq., Commissioner, 1st or Meerut Division, to R. J. LEEDS, Esq., Officiating Collector, Mozuffernugger (No. 270).—Dated the 16th October, 1865.

SIR,—I have the honor to acknowledge the receipt of your predecessor's letter No. 217, dated the 29th July last, on the subject of the introduction of the Permanent Settlement in the Mozuffernugger District.

- 2. The views expressed in Mr. Martin's 3rd para are, I believe, quite correct, and the jumma of the estates in which the owners have accepted a progressive demand should be raised.
- 3. The estates mentioned in para. 4 should be carefully examined, the assessment, if necessary, revised, and the result reported.
  - 4. Para. 5.—The term will be fixed by the Board and Government.
- 5. Para. 6—I observe some estates proposed for Permanent Settlement in which liability to injury from the river is mentioned,—Secunderpore, No. 38, Pergunnah Churthawul, for instance. Are there any such which have been proposed for permanent, but should be temporary? Where only a small fraction is in the Khadir, Temporary Settlement would not be necessary.

I have, &c.,

F. WILLIAMS,

Commissioner.

From S. N. Mabtin, Esq., Collector, Mozfernugger, to F. Williams, Esq., Commissioner, 1st or Meerut Division (No. 330)—Dated Mozuffernugger, the 18th December, 1865.

SIR,—In continuation of mylprevious letter No. 217, dated 29th July, 1865, and your reply No. 270, dated 16th October, I do myself the honor to report upon the conclusion of the Permanent Settlement in conformity to the Board's Circular Order No 10, dated 26th July, 1865, premising that this district comes under the third class, having numerous estates fully developed, mixed with others not so advanced.

2. I have visited all those estates in which an augmentation to the initial jumma has been accepted by the proprietors, and, applying the cultivated acre rate to the culturable area in excess of 20 per cent. of assessable area (see para. 5 of the Board's Circular), have in a separate statement given my reasons for differing from such assessment—the reasons being that either the culturable was too poor to be rated at the half-assets cultivated acre rate, or, as frequently happened, the Settlement

Officer in his first proposition had already calculated probable income from extension of cultivation,—as in the instance of Hurhur Futtehpore, Pergunnah Thannah Bhowun, and others.

- 3. In calculating the amount of culturable area I have taken into consideration both new and old fallow lands, commonly known as "judeed" and "cudeen." I might possibly have left out the new fallow, as a certain proportion of culturable land must annually rest to gain strength for next cropping; but I preferred adding both together, to obviate any tendency to under-estimate. Much of the recent fallow has of course been ploughed up since the Settlement, and other fields have taken their place; but this interchange does not affect the correctness of the estimate.
- 4. I can safely say that I have been most cautious in the proposed assessments for excess culturable area: every village has been examined, and its capabilities closely tested. The consequence is, I have thought it necessary to alter my first proposals, made in conformity to the Board's first Circular No. 18, dated 1st August, 1864, in the cases of three estates only—

Perg	gunnah.			Mouzah.		Addition to first proposition.	
Bhooma,	•••	•••		Jurwur,	•••		50 Rs.
Bugra,	***	140		Lekhan, •••	•••		. 100 ,,
Kyrana,	•••	•••	•••	Bookurhairee,	***		50 %

Should these alterations meet with approval of superior authority, I will lose no time in avowing the permanent jummas, of the acceptance of which I have not the least doubt; but I have refrained from collecting the permanent jummas until the whole scheme is formally sanctioned.

- 5. There are numbers of estates in this district with less than 20 per cent. culturable area where the initial jumma is adequate, and might be declared permanent, but the proprietors refuse to engage permanently: there of course the Settlement will be temporary, at the initial jumma for thirty years, without any expectation for the future. The annexed general statement will show the results throughout the whole district.
- 6. Pergunnals Bidowlee and Goredhunpore are exceptional (see correspondence marginally noted), and will, I presume, be settled for twenty years only. Mr. Colvin's assessment of Bidowlee, as you are aware, I have already revised and reported with full particulars. In Goredhunpore there are the swampy estates just received back from the Canal Officer, Captain J. T. Forbes, R.E.;—these will form the subject of a separate address to you at the close of the year. Special orders will be required concerning them, as to the duration of Settlement and mode of future management.
- 7. In a verbal conversation we had together, you directed me to revise the jummas of those estates in which the rentals formed under the operation of Act XIV., 1863, showed the initial jummas to be less than a full moiety of present assets: this I have done, and submit the result in a separate tabular statement for your approval. I have proposed an increase of 50 Rs. to Murree Sadat, 65 Rs. to Kowalee, 100 Rs. to Khoknee, 100 Rs. to Meemla Kheree, 90 Rs. to Khurpour, 100 Rs. to Rahkura, 50 Rs. to Nulehree;—total augmentation, Rs. 555.
- 8. "Khadir" and "Bangur" estates have been marked off and separate jummas fixed, in obedience to the Board's Circular No. 29, dated 7th December, 1864. The only variable portion will be the low lands liable to fluvial action, and these will be treated

in cases of injury as directed by the Board. Similarly, all purely "Khadir" estates, with the entire area lying along the banks of the Ganges, are peculiarly liable to inundation and variableness in their assets; consequently, in all these estates clauses have been introduced into the Settlement misl to effect that the jummas are temporary; as, in cases of diluvion and alluvion, alterations may hereafter be called for on any sudden change of the river. In your letter No. 270, dated 16th October, you were pleased to approve of the proposition contained in the 6th paragraph of my letter No. 217, above alluded to. I am inclined to think the jummas of "Khadir" estates should run for twenty years only.

- 9. The remarks in the preceding paragraph do not, I think, apply to estates adjacent to the small streams, such as the Krishnee, Kalee Nuddee, and Hindun, for these rivers follow very much their old beds year after year; very little displacement occurs, and when land is cut up the custom called muchaseen prevails—i. e., the river remains as before the boundary. These slight oscillations, in the long run, leave estates on both banks nearly the same in area; consequently there is no increment nor decrement of jummas. It is only the violent rivers, like the Ganges and Jumna, that make such fearful havoc in heavy rainy seasons. The area of Secunderpore, No. 38 Pergunnah Churthawul, referred to in para. 5 of your letter No. 270, dated 16th October, has not varied to any perceptible degree since the last Settlement; nor during the currency of the old Settlement has there been any case of alluvion and diluvion in estates bordering these small streams.
- 10. I am not aware of any other observations called for. Messrs. Keene, Colvin, Grant, and myself carefully visited every village in the district before we submitted our assessments, which we believe to be a fair average moiety rental; and I confidently leave the result in your hands, in the hopes that the Settlement of the entire district will meet with the approval of Government.

I have the honor to be,
SIR,
Your most obedient Servant,
S. N. MARTIN,
Collector.

List of Estates in which the profits exceed the authorized moiety according to rental formed under Act XIV., 1863, subsequent to avoval of jummas.

What the jumes ough to be according to Sabs runpore Circular, taking column 3 se the rental.	46	Ba. As. P. 1,068 0 0	725 0 0	463 0 0	0 0 978	, 88 , 88	0 0 101
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Average income of past three years, (1870 F.S., 1271F.S., and		Rs. Au. 2,168 1	1,504 15	915 13	758	2,147 13	1,466
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			:	:	:	:	:
Pergunnah.	-	Вьоопя,	Ditto,	Ditto,	Joules Jansush,	Ditto,	Ditto

0 0 Mer. Charles Grant, Settlement Officer, raised the jumma, owing to canal irrigation, from Rs. 487 to Rg. 800 under the present Settlement—not far from double; and although the fixed rents might allow of the jumma being assessed at Rs. 1,000, I think it would be dishertening to make so heavy an increase; therefore recommend the first proposition being retained. This estate belong to the deeply-indebted Synds of Joulee, Casim All and others.	0 0 Owing to canal irrigation, Mr. Charles Grant, Settlement Officer, raised the jumma from Rs. 287 to Rs. 400. The whole malgocrares area is only 283 acres. I would not alter the first proposition, although cash rents (if always fully recovered, without arrears, &c.) might justify a jumma of Rs. 500.	0 0 A very deficiently canal-irrigated estate, the rajbuba running at a low level, therefore only partially available. The proprietor, Bijae Sing, is embarassed with debt, The soil is mostly fair "Roelee;" but I would deprecate any increase to the proposed jumma of Ra. 1,400.	o o This is a middling Bangur and Khadir estate; former sub-leases much below the present fixed rental; considerable mortality among the Chowhan cultivators, owing to had water; much of the soil sandy. For a permanent jumms, Rs. 700 is the highest should ever be demanded.	O This is an uninhabited estate of fair capabilities, having a large canal-irrigated area (499 acres, out of a total malgeozareee area of 589 acres). A permanent jumma of Ra. 700 is as much as should be demanded; the old jumma of Regulation IX., 1838, was Rs. 476, and this at two-thirds rental.	O o An uninhabited estate, the property of impoverished Synds of Kakronlee. The old two-thirds seek jumms was Ra, 520. A full moiety jumms for a canal-irrigated village might be fixed at Ra, 800, certainly not higher, due regard being paid to the chapter of accidents.	o o This indifferent village is on the compose the village site. Syn thirds asset jumms was Rs. 420. For a Permanent Settlement, Rs. 700 is the very highest. It is doubtful whether the semindars would accept a Permanent Settlement at an increase upon this.	A very large proportion of sandy "Bhoor" (1,458 acres, out of a cultivated area of 2,070 acres); irrigation deficient; the proprietors impoverished Syuds of Joulee, Casim Ali and others. For a permanent jumma we might go as high as Ra. 1,400, but not a farthing higher.	O of a uninhabited estate, with it is noon of a total cultivated area of 583 acrea.  The income of these sandy three sandy in the configuration of these sandy in the configuration of these sandy in the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of the configuration of
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Permanent Settlement Proposals (Circular Order, Board of Revenue, No. 10, dated 26th July, and Government of India No. 1666, dated 19th June, 1865).

		75 9	3 4 2 2 4 5 5 6 E	44	048	22.222	821
Remarks.	*ø	This first proposal made by the Collector in conformity to the Governor-General's Notification No. 544, dated 5th June. 1864, was to eases the excess area at Re. 30 making Re. 180 in all. Re the cultivated acreament the	jumma on excess area would be Ra. 81-40. The culturable area is very inferior indeed, and the proprietor is excessively poor, and in debt; very little hope of the waste village; two wells for irrigating, but nearly dry from as to be uf any use. The first proposals are retained, as inserted to Ra. 160 permanent jumma. The Putwaree as inserted to Ra. 160 permanent jumma. The Putwaree as inserted to Ra. 160 permanent jumma. The Putwaree as inserted to Ra. 160 permanent; no hopes of further increase as amounting to Ra. 35-6-8 have to be paid, leaving a net profit of about Ra, 87. This estate was given in reward for good services to Synd Goolam Husnayn, of Joules, who does not appear to look closely after any of his villages.	November 11th, 1865,—I have re-examined the culturable area. I found it covered with dhak jungle, in which state it has always remained within memory of man; not a well of any kind, and much of the land of a very doubiful character.	The first proposal for excess of culturable area was Ra. 72, making a total permanent demand of Ra. 3,300.  The cultivated acre-rate of Ra. 5-13-4 is not applicable, because the cultivation was contracted when measurements were made, and the Settlement Officer calculated the income of 1,100 acres of culturable area when he first fixed the jumma. The cultivated acre-rate of the neighbourhood is Ra. 2-10-7.	There are few residents in the village, and those belong to the very worst class of Rangurs, who cultivate nothing but the inferior crops. By the Puwaree's nikasees the entire income for 1271 Fusice is stated to be Rs. 3,097; and for 1272 Fusice, Rs. 4,889-3-0; while Orderson comindar, states that for the present he is making very little profit out of the setate, and that it will brown burn to before he is able to restore the property to its former condition. This village was burn to be defined by and found the statement of Ordeyram to be	Since the Settlement 1,044 beegahs 17 biswahs fallow land broken up; but the Settlement Officer rated 1,100 acres, or 2,200 beegahs, which standard has not yet been arrived at. Many of the cultivators bolted after the Muting, and have never returned. Lalla Codeyram has been put to considerable expense in locating new
fermanent jumma in conformity to Bosrd's Circula Corder No. 10, dated 26th July, 1865.	6.	Ra. Ag. P. 160 0 0	····		3,300 0 0		
		H O			0		<u>-</u> .
. Initial juome	4	Be. As. 130 0			3,227		
Culturable area in acres of per cent. steem a ble (m a lg oor raree) area.	ன்	.Acres.			1.64		
Name of Mousah.	ei	Aleeporc,		_	Auchur Futtehpore,		
Pergrapali.	1.	Thannah Bhowun,			Ditto,		

By the first proposition Rs. 29 were assessed on excess culturable area, making a total permanent demand of Rs. 315. At the cultivated accerate of Re. 1-12-10, the sum would be Rs. 154-2-6. The culturable area is fair-land; there are no resident cultivators—they come from Koetubgurh; consequently, expense and trouble to keep cultivation up to mark. The present proprietor, Goolam Husnayn, is an imporerished Syud. Profits not equal to the Government jumms; may be so hereafter; the first proposal should stand. In kham tehned: was a loss, there is no reason why for the future the profits of the extate abound not be considerably augmented, if the proprietor will only exert timeself to locate cultivators, improve the cultivation has been a long time treglected, but hat is owing to servicity of hands, neglect under kham tehned; and other removable cannot. This estate was a lowy why to the treamt owner for loyal arrives the salitivation has been a long time treglected, but it hat is owing to servicity of hands, neglect under kham tehned, and other removable cannot.	By the first proposition Rs. 70 were assessed on the excess culturable area; if the culturable area is indifferent. The culturable to the culturable, the amount would be Rs. 694; but the culturable area is indifferent. The culturable area bad lot of Rajpoots, were formerly proprietors, and the village was configurated for missing the futting the Mutinies of 1857, and given to Munsoor Ali Khan, as a reward for good earwices. The confine was Re. 1,130; the proposed permanent jumms in Rs. 1,370, and see no prospect of increasing it, the present profits, after paying the jumms and expenses, are only Rs 800; by the profits stated to be Rs. 855-11-3. The Putwaree deposes that only eleven pucks have been broken up mine the fettlement;—the former Rajpoot proprietors, now to exert themselves aince their property was confineated and bestowed in reward.  1044 November, 1865.—I have to-day examined this estate. The culturable area is covered with dhak jungle, has not been cultivated for years, and looks inferior. No wells nor means of irrigation of any kind. The proprietor and senants a proprietor and senants a sand loose. The proprietor, on the other hand, complain this leave complaints the leave and looks inferior. No wells nor means of irrigation of any kind. The complaint this leave complaints the tens in proprietor. The proprietor, in the other hand, married the position of kward cultivation. Rs. 1,270 is, I think, a maxi-	M A	The first proposition is as much as can earley be demanded.  The first proposition is as much as can earley be demanded.  The first proposition of excess of culturable was Rs. 48, making a total permanent demand of Rs. 1,090. If the , the increase should be about Rs. 98; but the culturable area is sloping down to the Hindun River; wells impossible to be made, none but the coarier crops—such as mote, hajrs—conid posnone the entire income for 1271 Fusice is said to be Rs. 1,780. By the Futware's nitrasses for Government jumma, plus ceases. No fresh land to be Rs. 2,104-6-6, out of which has to be defrayed the Government jumma, plus ceases. No fresh land demand.  Bs. 1,090, therefore, is ample for a permanent demand.
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313	074,1	3,730	1,000
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64 	1,300	3,530	1,048
08	900	633	0
Jumalpore,	Rimbeytah Tacoobpore,	Mehal Mujibatta, Than- nah Bhowna.	Kumalpore,
	:	÷	Shikarpore,
Disto.	Ditto	Dir	Sht.

Permanent Beltlement Proposale,-(Continued.)

Bemarks.	.,	as Ra. 50, making a total permanent demand of Rs. 700. If the se augmentation would be Rs. 209-10-3. The culturable area is .; it has not had a plough over it for some years. The zemindara unideration with reference to the Board's hat orders, I am of selections the seconces of these	adequate.	The first proposal for excess culturable area was Ra. 60, making a permanent total demand of Ra. 360, If the cultivated acre-rate (A. 14-11) by applied to the excess area, the amount would be Ra. 127-2-4.  This village is  The propositor  The propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fract propositor  The fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the fraction of the f	The first proposal was Ra. 30 for excess culturable area, making a total demand (permanent) of Ra. 340. If the culturated acce-rate (Aa. 15.05) be applied, the amount would be Ra. 55.9-4. The culturable is indifferent; —no wells nor means of irrigation, entirely dependent on the rains, and cut up into ravines; what cultivation there is to be seen is in the hands of Paikasht Assames. The Syud proprietors are extremely importanted. To enters of Mahomed Hoosen and Suider All (§ of 5 biswahs) have just been sold for debt, in execution of decree. The first proposals had better stand. By Putwares's nikasse, profits not at present equal to Government demand.	The first proposal for excess of culturable was Ra. 100, making a permanent demand of Ra. 900. If the cultivated acre-rate (Az. 11-6) applied to the excess area, the augmentation would be Ra. 153-1-6. The culturable area is "Bhoor"—a very inferior class of soil, yields poor returns; no wells—dependent on rains of heaven; the soil is extremely uneven and sandy, and cannot possibly bear a heavier assessment than that already proposed; at present soiling but rank great on it. The cultivators belong to the worst class of Goojura and Kangura. Altogether 40 houses in the village. By the Putwaree's ninames fruits are stated to be Ra. 822; clearly the permanent fuluma cannot be raised beyond its, 900.
Perman en t jumma in conformity to Board's Circular Order No. 10, dated 26th July, 1865.	ΣĞ	Es. As. P. 750 0 0		0 0 098	0 0 048	0 006
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Initial jumma.	4	Ra. As. P. 650 0 0		900	0 0	000
Authur h le arean acres in exces of a pur cent. assessa h le (m a lg o o astree) area.	<b>8</b> 3	Acres. 267		85 85	<b>1</b>	eo .
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The first proposal for excess culturable area was Rs. 75. If the cultivated acterate of Re. 1-9-10 be applied, the excess would be Rs. 179-3-6. The culturable area is very bad—part of it has become swampy, supposed to be owing to percolation from canal into the low lands near the Kales Nuddee: the rest is "Shour," sandy stuff, and uneven. There seems no prospect of increasing the original proposition of Rs. 75, making the total permanent demand Rs. 1,060.  By the Putwaree's nikassee for 1272 Fusles, the profits on the satate after paying Government jumms, cesses, Chowkeedaree, &c., amounts to Rs. 1,100. Up to this time (21st November, 1865), the zemindars have not attempted to break up the culturable area: they say it would not be worth their while. The soli is "Bhoor."	By the first proposition for culturable area, Rz. 80. If the cultivated accerate (Re. 1-7-114) be applied to this area, the excess would be Rz. 245.5-9. The culturable area is fair, but the Rangur proprietors are not energetic; the present profits according to the Private's papers are not equal to the Government jimma; considerable trouble is experienced in realising the Revenue assessed; eight biswahs belong to the indebted Syud of Sumbulhera, Mahomed Roosein. The first proposition had better stand;—it is as much as can be realized with any safety. By the nikasses for 1272 Fusice, the Putwares makes the profits to be Rz. 533, after paying the Government jumma and cesses; cultivation is backward in the hands of Rajpoot cultivators.	B; first proposal. This is an unfully steed acre-rise (As. 14-6) be applied, first proposal. This is an unfull shifted and unirrigated he Bangur, the rest in the Khadir, of Kales Nucleo, and from Canages Canal; but the canal is a very long way off. I first proposition being a maximum, had better remain in ucks maunds of gram were produced in 1272 Fusice, the the profits amounted to Es. 100. At the present moment there is a prospect of a Rubbee harvest, 1272 Fusice; but the estate is altogether very unpromising.	By the first proposition excess area assessed at Ra. 35. If the cultivated acre-rate of Re. 1-14-6 he applied, the amount would be Re. 184-8-0. No wells; the Goojur tenants are had cultivators, without energy and without means. The culturable area is fair, but not much prospect of being made profitable. The profits for 1271 Fusies are stated to have been Ra. 354-9-0; for 1272 Fusies, Rs. 372-5-3. I think a total demand of Rs. 500 is ample for a Permanent Settlement. The Putware deposes that, out of the culturable area 46 beegals pucks 7 biswahs have been broken up since the Settlement, producing a rental of Ra. 76-15-3. The first proposition can stand for a Permanent Settlement.	By the first proposition, Rs. 68 assessed on excess area, By the cultivated accerate (Ra. i-1-1) the excess jumms would be Rs. 207-2-2; the culturable consists of inferior "Roslee" and "Bhoor," too high to be irrigated. The "Boslee" can be cultivated, but the "Bhoor" scarcely so. By the Putware's alleasee for 1271 Fusies, profits stated to be Rs. 562-0-0; by the inkassee for 1272 Fusies, profits Es. 800. Ealt belongs to Synds, and half to a Mabajun. The sand-hills pass over this estate; much of the area is inferior "Bhoor." I do not think it would be safe to augment the first proposition for a permanent demand.	By the first proposition Rs. 90 was assessed on excess ares. If the cultivated scre-rate (Rs. 18 3‡) be applied, the excess jummas ould be Rs. 141-12-1. The cultivable ares is "Roales" and "Bhoor," quite unirrigated, uncediffrated upto I ate; no readdent cultivators. By Putwares influences for 1271 Finise, profits stated to be Rs. 500 by cachr nits; in 1272 Fusies, profits Rs. 564. The first proposition may be allowed to stand.
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•	i		;	i	i
Chundseena,	Ghalibpore,	Unbeebpore,	Kukrals,	Bhundsors,	Juratra,
!	:	•	:	ŧ	1
Ditto	Dittu,	Khatoulee,	Ditto,	Joulee Jansuth,	Ditto,

Permanent Seillement Proposale. - (Concluded.)

Culturable forman nent jumma, in conformity to Boards in excess of Initial to Boards to Boards assess able for No. 10, dated 26th July, 1866.	5,	Agree, Bg. As. P. Rs. As. P.  321 1,650 0 0 1,850 0 0 The first proposal was Rs. 100 for Rs. 1,750, If Rs. 1,750, If the cultivated agreement (Rs. 1-3 and will no doubt come under orders, I think Rs. 200 may be be total permanent demand of Rs. 1,750, If	November 444, 1865.—To make sure, I have again examined the culturable area. I find a few acres (about 40) have been broken up since the Settlement. No wells—the soil is too sandy to admit of sinking wells. Should there be a sourcity of rain, the spring harvest must prove a failure. Bs. 1,850 I consider quite sufficient for a Permanent Settlement.  The proprietors are a numerous Bajpoot community, upwards of 400 shareholders, and at loggerheads with each other.	1,600 0 1,700 0 0  1,700 0 0 1,700 0 0 reassessed the on the excess culturable area. If the cultivated acre-rate (Rs. 1.8-04) ould be for a Permanent Stilement, Rs. 490-4-6; but there is much "Bloor," and induin is very meren and raviny. The cultivators are Rappoots, who mostly eglect cultivation and the "Rappoots" in this neighbourhood and the Saharunlite to cultivating their fields; and there is little prospect of their altering setting settiement, The land is so poor, the culturable area, and found not a single acre broken up since the return can be expected. There are no wells. The first proposition had better stand.	1,157 0 0 1,220 0 0 By the first proposition Rs. 63 were assessed on excess culturable area, making in all Rs. 1,220 permanent demand.  If the cultivated area (Re. 1-12-2) he applied, the excess immas should be Rs. 122-3-0. Culturable consists of uneven land close to the Hindun of three years ago. By the gold is shown it is ever cultivated, no fresh land broken up since the land broken up since for 1271 Fuslee, profits stated to the numerous Pathan co-parcenary, in needy chromatances. The entire income for 1272 Fuslee was Rs. 2,080-11-6; out of this had to be defrayed Government jumps and coses.
				0 009.	1,157 0
Name of Meuzah.	<b>ાં</b>	Lekhan,		Nussearpore,	Hooseinpore,
Pergmanh.	1.	Bugrs,		Ditto	Boorbans,

<u>_</u>	3864848# #	용설립	2-11-22 P.S. 2 W-1-2-2
d acre-rate (Ba. 37-8-0	applied, He. S,437-8-0 would be the assessment; but this is absurd. There were only four acres cultivated at the time of the Bethlement: all the rest had been neglected by the Goojur proprietors, and a penal farm was made for Rs. 150, including income!  To Rs. 150, including income!  Mahomed, owner of five biswahs, for 15 years, beginning from 127   Fusice. 1  The excluded proprietors now do not result think, take place after expiry of farm. The excluded proprietors now last Settlement was Rs. 70; for a Pernanent Settlement this was relied to Rs. 200. There are no wells on the easte, which is an off-lying hamlet of Bhoors. The farmer is doing his best to break up the lands, and has at considerable expense (he says Rs. 500) introduced canal water. Under the circumstances, there being not inhabitants on the estate, and the lands having been abandoned for years, I see no prospect of getting more than Rs. 250, and this is in axcess of double the old jumma under Regulation IX., 1833.	November 8th, 1865.—I have re-examined the lands. The farmer has broken up about 100 acres, at much expense in digging out the roots of shrubs, &c. his profits are reputed to be about Rs. 200, but this has all been sunk in improvements, and he suffered a dead loss in \$271 Finslee. The permanent jumms after close of farm should not be above Rs. 250.	297 0 By the first proposition the excess culturable was assessed at Rs: 96, making the total maximum jumms Rs. 267, to come into operation beginning of 1879 Fusiee. At the Settlement only 171 beegahs 18 biswahs cultivated, the rest very old fallow, used by the wretched Googiur cultivators for depasturing cattle; the small amount of cultivation made the acre-rate as high as Rs. 5-11-10, quite inapplicable to the extensive culturable area. The malgoozares acre-rate of the revised assessment is Rs. 0-8-4,—that applied to excess of culturable would give Rs. 256-7-9; but this estate is altogather unable to bear so heavy an increment to the initial jumms. There are altogather twelve masonry wells on the property, with water 20 to 30 feet distant; but there is nobody to cultivate, nor will any outsiders face the thieriah Goojur population of the neighbourhood. The wells above referred to have been descreed for many years. Bacoresa have been located here, with the view of competing against the Goojurs ("diamond of thinely rain. By the Putwaree's nikassee for 1271 Fusiee, profits stated to be only Rs. 38-7-9 without paying cesses; and for 1272 Fusiee, Rs. 60-4-6—nearly all the rente being leased. Rs. 287 had better remain as permanent jumms.
res. If the cultivate	L. There were only in the proprietors, as whomed, owner of fill, I think, take pile or e-enter on any tenter of a relied to Rs. 200 is doing his best is doing his best water. Under the old for years, I see ander Regulation	s broken up about 1: to be about Rs. 200, the permanent jum	in making the total remain only 171 beegs refor departuring upplicable to the experiment to vivy an increment to vivy an increment to see also of feet distantation of the neighbousen located here, wastely during the first. By the Eutwing and for 1272 Ferring harms.
excess culturable s	neglected by the Garana neglected by the Garana Bettlement this was noora. The farmer this warning been abandoouble the old jummonthe on blummonthe the old jummonthe the old	ds. The farmer h profits are reputed in 1271 Fusies.	se assessed at Rs: 9 slee. At the Settle d Goojur cultivate to 5-11-10, quite in sessment is Rs 0-8-4 unable to bearso he erjah Goojur popu roperty, with wate erjah Goojur popu di ); Bacoreas have di ); but unfortun om want of timely thout paying cesses r remain as perman
50 were assessed or	und be the assessment that the rest had been cone if the in it is now a Permaneut of the in it is now a Permaneut of the asys Re. 60 the the lands has in a copes of cites in a copes of cites in a copes of cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in the cites in	re-examined the la of shrubs, &c. his suffered a dead loss 50.	excess culturable weginuing of 1879 for used by the wretch as 1 of the revised assessate is altogether soory wells on the third for many year exted for many year lifemond cut diamond year even burnt up for only Ra. 287 had better. Ra. 287 had better.
first proposition Bs.	applied, Rs. 2,437-8-0 would be firme of the Settlement: all the for Rs. 150, including income 1 beginning from 1271 Yuslee. J. The excluded proprietors now the estate, which is an off-lying the estate, which is an off-lying has at considerable expense (he no inhabitants on the estate, an more than Rs. 250, and this is i	ovember 8th, 1886.—I have re in digging out the roots of in improvements, and he suf- should not be above Rs. 250.	first proposition the me into operation bet very old fallow, litration made the a malgoozaree acre-ra malgoozaree acre-ra logether twelve may or red to have been dee not the Goojures (", all the Khureef cree, profits stated to lee rents being leased to rents being leased to rents being leased.
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General Statement showing Results of Permanent and Temporary Settlement, Zillah Mozuffernugger.

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RGUNNAH.	Total jumma, to come into T immediate operation as immediate coperations as Settlement is sanctioned.	17.	Ra. As.	1,20,067 0	00,480	02,407	90 980 0	- 1	3,16,722 10			61,686 0		1	2,90,666 0	0 000 0	1.03.349	_	- [					45,886 0	2,32,599 0	11.24.655 10	Actominad to
Total Junka of Pergunnah	Permanent jumma.	16.	Re.	72,980	20,00	00,0020	90,20		1,73,473	65,492	171,08	89,306	48,370	:	2,53,839	29 687	06,90	107,810	2001	2,66,858	58,271	50,221	61,632	31,205	2,01,229	8 04 899	then been
TOTAL JU	Temporary jumma, including refusal of Permanant Settlement, also backward and deteriorated estates, &c., &c.	16.	BB.	47,077 0		18,579 0	_	29,980 0	1,43,249 10	6,100 0		2,330 0			37.327 0	1.		0 00.	- 1	17,810 0	0 009	10.989 0		14,681 0	81,370 0	9 99 786 10	Tole 100K
	Initial temporary jumms or	14.	Rs.	:	:	2	030	23,950	30,100	:	•	:	1,310	17,217	18.527		:	:	:	:	:	4.819	. :	12,647	17,466	66 009	1-4-3 004
s Tol	Number of backward and riorated villages unfit Permanent Settlement, fore excluded.	13.		:	:		::	26	29	:	: :	: :	=	69	8		:	:		:		6	} ;	8	90	001	180
seq;	Initial temporary jumma of	12.	Re	162	21,276	8,984	6,974	:	37,396	1.000	1.720	1.670		: :	390		7,242	6,468	4,100	17,810	909	6.170	5.5	;	11.870	41 400	71,400
arable	Number of villages having than 20 per cent, cultivates, whose proprietor unwilling to engage p nently.	11.		_	88	13	-	:	54		• •:	•	• ;	: :	4	,	-	æ (	Z	11	-	•	·	•	14		82
	Total permanent demand.	10.	2	:	287	009	8,778	:	9,662	1	8.450	2 :	:	: :	9 4KO	2	1,220	1,090	:	2,310	1.740		8.466	1,700	6.898	010	22,218
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E.	smmut laitinI	80	Ra	:	189	200	8,375	:	9,064		3.950		:	: :	8 950	2	1,157	1,042	:	2,199	1.669		186	1,520	6.917	100	20,000 i
-untin erore	Number of villages having than 20 acres per cent. c able ares, whose propr are willing to engage penelty.	7.		:	_	<b>69</b>	···	:	6		; •	• ;	•	: :		•	, bes			æ	0	•		• 4	-		24   20/1701   1,086   12/1701   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190
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-emi	Initial jumms, to be made pe	1		72.980	30,171	33,228	27,432	ì	1.63,811	1	65,492	10,721	006,80	40,010	100	2,49,389	61,447	95,791	1,07,310	2.64.548	10 101	100,001	22,00	90,076	1 04 999	1,92,000	8,72,681
cul- Per-	Number of villagee having than 20 acres per cent. unsable area, and fit for a manent Settlement—protors being willing to en permanently.		å	97	0 1	7 6	. 75	;	141		69	2;	<u>.</u>	4		237	8	53	74	162		3 :	9 9	\$ <del>-</del>		210	765
847	Pergunnsh.		2.	,			Kyrana,	-	Islaowice,	I enseet Mamiee,	Mozuffernugger,	Bugra,	Churthawul,	Poor,	Gordhunpore,	Tehseel Mozufferaugger,	Roorhang	Shilkarnore.		oel Roorhang.	(0)	Jowlee Jansuth,	Bhokurheree,	Khutoulee,	Bhooma Sumbuinera,	Tehseel Jansum,	GRAND TOTAL, 755 8,72,581 60 92,197 10
	Mozuppernuogera.																										

Nore.—In addition to the augmentation for excess culturable area noted above, upon reconsideration, and with reference to the Board's hat Circular No. 10, dated 26th July, 1865, it has been determined to offer a Permanent Settlement to the proprietors of three villages.—Jurwur, Pergunnah Bhooma, 50 Bs.; Lekhan, Pergunnah Bugra, 100 Rs.; and Bookurheree, Pergunnah Kyrana, Rs. 50,—a total excess of Rs. 200 on first proposition. If this be agreed to, of which I think there can be no doubt, then the permanent jumma in column 16 will be increased by 200 Rs. Mouzah Bookurheree, however, has been for the present penally farmed for fifteen years from 1271 Fuslee. The permanent jumma will come into operation after close of farm,—not before, I think.

8. N. MARTIN, Collector.

FROM

# S. N. MARTIN, Esquire, Collector of Moozuffernugger,

To

#### F. WILLIAMS, ESQUIRE,

Commissioner of Revenue, 1st Division, Meerut.

Dated Moozuffernugger, the 22nd May, 1865.

SIR,

In reporting the completion of the settlement commenced in the cold season of 1860, the subject necessarily divides itself into five heads:—1st, Adjustment of Boundaries; 2nd, Survey; 3rd, Assessment; 4th, Record of Rights; 5th, General Remarks. Before entering into details, it is proper that I should state the success or otherwise of the past settlement; and this may be best done by a tabular return of collections and balances, as far as ascertainable.

Y	ear.	Demand.			Collections		Balances.			
		Rs.	As. ]	2.	Rs.	As.	– P.	Rs. As. P.		
1856-57	•••	 11,12,029			11,10,506		1	1,522 8 6		
1857-58	•••	 11,13,049		- 1	11,02,836		2	10,212 3 11		
1858-59	•••	 11,17,633	0 1	- 1	11,08,316	3	7	9,316 12 6		
1859-60	•••	 11,17,803	10 7	' I	11,08,432	3	1	9,371 7 6		
1860-61	•••	 11,25,384	14 7		10,57,567	15	9	67,816 14 10		

This last balance is due to the famine.

The records having been destroyed during the mutinies, I am unable to give an account of the collections of the past twenty years; the above return is all that can be furnished from this Office; but it is well known that the demand was always punctually realized, until the year of mutiny, and subsequently one of famine, threw the district into disorder.

The only mistake I can discover which Messrs. Thornton, H. Elliot, and C. Plowden committed was, disproportionately taxing the industrious communities of Jâts. As a rule, the past settlement was moderate and gave satisfaction; and this is plainly proved by the rare occurrence of coercive processes.

The next criterion is the number of voluntary or compulsory transfers of property.

* Vide Transfer Statements for Bhooma, Bugra, and Shamlee.

Although in some pergunnahs* transfers have been rather numerous, I have never heard that severity of land tax was the primary cause; generally speaking, other causes have been at work, as in the case of the Syud proprietors, amongst whom these mutations have been most frequent.

The Syuds are the descendants of the old country gentry; they lead an idle life, and though their numbers have greatly increased, out of all proportion to the minute quantity of land from which they now draw subsistence, they cannot be induced to curtail expenditure, and are deeply involved to the money-lenders. On the Collectory side under Act VIII., 1859, I have been propping up the chief Syud families; but the day of reckoning must come, sooner or later, and in the meantime they are decaying rapidly (see the number of transfers in Pergunnah Bhoomah Sumbulhaira; a half of the pergunnah has changed hands).

- 2. It will be unnecessary for me to describe the geographical features of the district, as Mr. Keene has so well done this in his report, which I have already submitted to the Board. They have also been mentioned in the Pergunnah Reports of each of the Settlement Officers.
  - 3. Disputed boundaries were few, as will be seen from the following statement:-

Total number of boundary cases.	Amicably settled by compromise or otherwise.	Disputed boundaries settled by arbitration.
172	128	44

All disputes were settled according to the principles laid down in paragraphs 8, 9, 10, 11, 12, 13, &c., "Directions to Settlement Officers." A list of disputed boundaries having been prepared, the contending parties were called upon to adjust their differences within seven days; failing to do this, arbitration was resorted to, as directed in Regulation IX., 1833, Sections 5, 6, 7. As a rule, there was no difficulty found in deciding these disputes; the demarcation of the previous settlement was generally maintained throughout the district. Judging from the paucity of appeals, the decisions have given general satisfaction, and it is believed they will stand the closest scrutiny in the Civil Courts.

- 4. The survey by Ameens and Putwarees was more than half finished when I assumed charge of the district in March, 1862. The *modus operandi* is thus described by Mr. Colvin, Assistant Collector, Settlement Department, who took the principal share in this, as indeed in other duties connected with the revision of the settlement:—
- "The measurements were commenced first in Moozuffernugger, Bughra, Shikarpore, Boorhana, Churthawul, Thannah Bhowun, Jhinjana, Bidowlee. This was in October, 1860. To each pergunnah was appointed a Moonserim on Rs. 30, and three Ameens on grades of Rs. 15 and Rs. 12. The pergunnah was divided into three compact parts, each Ameen taking one. The four first pergunnahs were made over to Nanuck Chund, Deputy Collector, for superintendence; the last four to Mr. Colvin, Assistant Collector. Immediately under these officers were the Peshkars of the Tehseels of Moozuffernugger and Thannah Bhowun respectively.

The actual measurement was carried on by Putwarees, or where these by ill-health or other cause were incapacitated, by Gomashtas paid by the Putwarees. The Ameens inspected the measurements while in progress. Not more than six villages were under measurements at the same time under any one Ameen. When a village was measured, the Ameen signed the map and papers, and made them over to the Moonserim. The Moonserim tested at 20 per cent. of the fields. After he had affixed his signature, the papers were made over to the Peshkar. He tested at 10 per cent., and made over the papers to the officer in charge. He finally tested the papers. The current work was also inspected by him as he moved about the district. These eight pergunnahs were completed by September, 1861.

The Pergunnahs of Gordhunpore, Poor, and Bhookurheree were commenced in January, 1861, and finished in October, 1861. They were superintended by Nanuck Chund; and all three pergunnahs were entrusted to one Moonserim and nine Ameens. When the Deputy Collector left, then Mr. Keene took over his four pergunnahs, which were finished by June, 1861.

In October of 1861, Kyranah was commenced by Mr. Colvin, with the Peshkar, Moonserim, and three Ameens. The arrangements were the same as in the other pergunnahs. In this Tehseel the Peshkar was quite useless. The measurements were finished in February, 1862. In that month Shamlee was commenced, the

Kyranah staff being transferred to it. In February, 1862, the measurements were started in Kandhla,—three Ameens being appointed to it. The Moonserim appointed in Shamlee looked after Kandhla also. The measurements in these two pergunnahs were completed in April, 1863.

In October, 1861, Sumbulhera was commenced under Nanuck Chund, Deputy Collector, and finished in August, 1862. In February, 1862, Jowlee and Khutowlee were commenced under him (three Ameens per pergunnah, and one Moonserim for the whole, being his staff). In April these pergunnahs were completed simultaneously with Kandhla and Shamlee.

For the "abadee," or town measurements, one Ameen was appointed to every two pergunnahs. His work again was tested by the Peshkar and superintending officer. This work was not carried on simultaneously with the field measurements, as it was thought it would delay them, and consequently the assessment. They were commenced in October, 1861, and finished by June, 1863. The large towns were measured by Gomashtas (chiefly Ameens who had been reduced), the villages by Putwarees.

When it is said that there were three Ameens to each pergunnah, and one Moonserim, it must be understood that as the villages were measured Ameens and Moonserims were reduced. Hence in February, 1861, Bidowlee and Jhinjanah were brought under one Moonserim, and Thannah Bhowun and Churthawul under another. The Putwarees as a rule shirk the measurements, partly from being unskilled and unable to keep up to time, partly from being hurried, and physically unable to measure more than one village at a time, and partly because their other duties draw them away from the work. If they are allowed, they always appoint a Gomashta,—an expense which I take it is provided for in the village "bach."

- 5. During the progress of the measurements weekly statements of business done were required from the Ameens and Moonserims. A standard of daily work being fixed, the Ameens were expected to keep up to it; if they exceeded, well and good, but if they fell short, pay was stopped until the deficiency was worked up. This is the only effectual way to keep these officials up to their work; otherwise there is no hold on them, and the measurements might have been protracted ad libitum. The work was thus distributed,—one Ameen had charge of four chains, each worked by two Mirdhas, who measured 30 pucka beegahs per diem; or for four chains 120 pucka beegahs. In towns, one Mirdha only was told off to each chain, and he was required to measure 35 houses; and about four chains were under the charge of each Ameen, who prepared the Khusrahs and Shujrahs of 140 houses per diem: this was the utmost that could be done by one Ameen; frequently he fell short of this standard, and had to make up the deficiency by extra labor.
- 6. Where the Ameens have mostly erred is in the description of soils and crops. I have generally found that they have put down more "meesun" lands than properly belong to that class. It is curious that they should have committed this error; for being temporary servants of not irreproachable integrity, it would not have been surprising had they connived with the land-holders to lower the kind of cultivation. In most of the pergunnahs of this district we have had very good means of testing the amount of irrigation by comparing the Ameens' returns with the "Khusrahs" of the Canal Department; when discrepancies have been detected, strict enquiry has been made as to the cause of the difference, and the error rectified.
- 7. Assessments.—I have already so fully detailed the data upon which I have made my assessments in the reports attached to each pergunnah,* that it is needless to repeat them in this place. My Assistants have pursued the same course, making a separate report for each pergunnah when completed. The following demi-official note, which I had the

honor of addressing to the Board during the progress of the revision of the settlement, will show the part I took as Collector in supervising the work of my Assistants. The Board were pleased to approve of the principles I there laid down; and I believe I have faithfully acted up to them.

"There can be little doubt that the superintendence expected by Government from the Collector is of the most active kind;—from the time the measurements are commenced, till the completion of the assessment of the records of rights and the final report, nothing should escape the notice of the Collector."

In the Scharunpore Circular, Appendix No. XX., "Directions to Settlement Officers," the Government always addressed the Collector—vide paragraphs 8, 35, 36, 37, &c.;—thus clearly showing who is the chief responsible authority. Certain sub-divisions of the district are entrusted to the Covenanted Deputy Collectors, who should watch narrowly the survey operations of the Moonserims, Ameens, and measuring parties, and insist on a certain amount of weekly progress, such as has been fixed upon in this dis-Celerity has not been desired at the cost of accuracy; but it has been considered necessary to fix a standard of daily work which it is known can be efficiently performed with ordinary industry. The Moonserims, Tehseeldars, and Uncovenanted Deputy Collectors should scrutinize the measurements of the Ameens and Putwarees, and report their proceedings to the Covenanted Deputy Collectors. The Uncovenanted Deputy Collectors are under the immediate direction of the Assistants, Settlement Department, for that part of the district only for which the Assistant is held peculiarly responsible; and all are subject to the control of the Collector of the district, who will himself take charge of a sub-division as much as the Covenanted Assistants; for instance, in Moozuffernugger, the Collector has entirely settled six out of seventeen pergunnahs,—the remaining eleven being divided between two Assistants. The Assistants cannot hear appeals in any shape from the Native Deputy Collectors; they can only direct and supervise under the control of the Collector. All appeals and revisions of orders must necessarily be referred to the Collector. Should a Collector choose to call for any proceedings from the Assistants, and issue any interim order, he is quite empowered so to do; and he will generally return the proceedings for the perusal of the subordinate officer. Thus, in the matter of long-outstanding balances, the Collector alone can fix at the time of settlement how much may fairly be written off to the head of "Unrealizable," and how much shall be considered as recoverable.

The Assistants, however, can be advantageously employed in examining these balances and reporting to the Collector. Indeed, it would be difficult to say to what part of the duty of the revision of the land revenue the Collector's interference does not extend; and supposing that it is exercised with judgment, and with a due appreciation of the current fiscal laws, it must tend to the benefit of the public service. It is erroneous to suppose that the Assistants appointed to the Settlement Department are in any way exempted from the supervision of Collectors of districts; for the time being, they form part of the subordinate establishment of the district, just as much as the ordinary Deputy Collectors appointed under Regulation IX., 1833.

The measurements and adjustment of boundaries being satisfactorily concluded, we come to Assessments. First of all the Collector should, in concert with his Assistants, decide as to the proper system of preparing rental estimates,—that is, of ascertaining the rental, or that amount of the rents of an estate which reaches the land-holder. Having laid down formula and agreed to the general course of enquiry to be adopted,—what is reliable and what unreliable data,—the Assistants should be directed personally to visit each village separately, and to record full pertinent remarks in a Pergunnah Book prepared for that purpose. Attention should be directed to the following points:—

The character of the soil and of the crops produced. The character of proprietors and tenants. Means of irrigation, depth of water, &c.

The rates of the old jumma on the cultivated and malgoozaree area, as compared to the neighbourhood, and to similar classes of estates.

The prevailing rents, past fiscal history.

How the revenue has hitherto been realized.

Any coercive processes, any transfers, and to what causes to be ascribed. Then a note with the different rental estimates produced by the methods approved of in consultation; also the Putwarees' rentals for five years at least.

Statement of the proprietor as to his rental. If great variance, show cause, and the standard to which it is proposed to adhere. In juxtaposition place "Douls," or estimates of the Pergunnah Officers, and of the respectable landlords.

The proposed jumma—at what rate does it fall.

If high or low, explain the cause of variance.

Having done this "Mouzahwar," and obtained all the information that is possible by holding free communication with the people, the Assistant will submit his Pergunnah Book to the Collector, who will either record his remarks therein, or, in consultation with the Assistants, will approve or make any alterations as may seem requisite. It would be useful to annex a Pergunnah Skeleton Map, with the rates of the old jumma on the cultivated and malgoozaree area dotted down in red ink, adding a note of the rates of the neighbouring pergunnahs.

Also another map, similarly prepared, with the rates of the proposed jumma, Mouzahwar and Pergunnahwar. As soon as the Collector's sanction has been obtained, the jummas to be avowed, and any recusancy or difficulty in obtaining the signature of the Malgoozars, to be reported to the Collector, who will instruct the Assistant how to proceed. The Covenanted Assistants should be encouraged to consult the Collector whenever any difficulty occurs.

In this way it is anticipated the work will be most effectually done and controlled.

The supervision of the preparation of the record of rights throughout the district will of course devolve upon the Collector, who will not at the same time attempt so illusory a task as to grasp more than he can intelligently perform, lest, whilst endeavouring to effect an impossibility, he should in reality exercise but a slovenly direction over his subordinates. Collectors will for the most part be only too glad to call in the aid of intelligent Assistants, and, by a proper sub-division of labor, eventually complete the onerous responsibility of the re-settlement of the districts confided to their charge.

Assistants will have an opportunity of reporting separately for each pergunnah, and their exertions will be duly appreciated by the Collector when he sums up his report for the whole district. Such is, I believe, a summary of the manner in which a revision of the settlement should be carried out in all its branches.

8. My predecessor, Mr. H. G. Keene, assessed Gordhunpore, Boorhana, and hitted. Shikarpore; and the report* for these pergunnals was sent to the Board in March, 1862.

Pergunnahs Moozuffernugger, Bughra, and Poor Chupar have been assessed by me.

Mr. Colvin—Bidowlee, Kandlah, Kyranah, Shamlee, Jhinjana, Thannah Bhowun, and Chirthawul. The report for Pergunnah Bidowlee was sent to the Board at the same time as Mr. Keene's.

Mr. Grant-Bhookurheree, Bhoomah Sumbulhaira, Jowlee, Jansuth, and Khutowlee.

. In all, seventeen pergunnahs.

The demand of the past Settlement was Rs. 11,19,839-13-7; the revised jumma is Rs. 11,19,127-10-0, exclusive of Rs. 10,094 assessed on life rent-free tenures. If this be added to the revised jumma, then the total demand for the district will amount to Rs. 11,29,221-10-0, or a fall of Rs. 712-3-7;* with

which if we compare the expenditure of Rs. 1,56,768, the cost to Government in revising the settlement during the past three and a half years, financially the measure might appear to pure economists to be a failure. It has, however, been the endeavour of myself and subordinates to tax the people at 10, instead of 13\frac{1}{3}, shillings in the pound; and this has been effected after the most elaborate and careful enquiry. Where the tax pressed, owing to severity of demand and to natural causes of deterioration, and where classes of agriculturists were unequally assessed,—as in the case of the industrious Jâts,—relief has been given. On the other hand, where villages have had their assets doubled by the introduction of the canal, or cultivation has largely improved, Government has justly come in for a moiety of the increased profits. One of the main causes of the decrease in the total demand is due to the present state of the Pergunnah of "Ridowlee," which is occupied by that depraved class, "Goojurs." These people prefer thieving and grazing herds of buffaloes, to pursuing the laborious occupation of agriculture.

I am almost inclined to propose that the settlement of this pergunnah be revised after ten years, the privilege of a permanent settlement being extended when the cultivation is brought up to an equality with the neighbouring pergunnahs. Mr. Colvin, who assessed this pergunnah, does not think that any good would be derived from limiting the period of settlement.

This subject will be dealt with more fully at the end of this report.

	Total area in acres,	Cultivated.	Culturable.	Maâfee.	Waste.	Remarks.
Former Settlement, Pergunnah Bidowlee Present Settlement, Pergunnah Bidowlee Increase Decrease	\$ 58,432 \$ 60,442 2,010	28,451 { 23,270 { { 5,181	Old, 15,685 New, 3,523 Old, 16,734 New, 5,879 Old, 1,049 New, 2,356	3,521 2,020  501	8,252 12,539 4,287	The culturable area is within 657 acres of the culti- vated area !

In this pergunnah alone there has been a fall in the jumma of Rs. 8,780-3-9; while the revised demand per acre (malgoozaree) is Rs. 0-11-4, and per acre cultivated Rs. 1-6-8. This is a state of things which hardly justifies one in proposing that the present light jumma should be made a permanent settlement. Indeed, this would be simply a premium on idleness, inducing others to follow the same course, in the hopes of getting the demand permanently lowered. The example of these vicious Goojurs is already most infectious. To have them under proper control, there should be an European Deputy Collector, with Joint Magistrate's powers, stationed at Shamlee or Bidowlee. In order to raise the cultivation of this pergunnah, and to bring it to a flourishing condition, I have proposed that "Baooreas," or wandering gipsies, be located in it; land can be given them on very cheap terms; they would prove formidable opponents to the "Goojurs" (vide my report to Commissioner, No. 77, dated 1st September, 1863). Mr. Colvin has given his reasons at length for lowering the jumma; and to that report, in the possession of the Board, I beg to refer. Also see Mr. Colvin's Minute on Permanent Settlement.

9. In the unirrigated pergunnahs—such as Churthawul, Bugra, Bhoomah Sumbulhaira—the past assessment even at two-thirds was too high. Transfers by private sale and by order of Court showed a severity in the demand, and of course at half assets it had to come down considerably. In other pergunnahs—such as Boorhana, Shikarpore, Khutowlee, &c.—the industrious Jât communities had been very much over-taxed,

merely because they produced more than their neighbours; no allowance being made for the outlay of capital. Then, again, the famine following upon the mutinies, seriously crippled the resources of all the zemindars in pergunnahs where water was deficient.

All these causes have combined to lower the past jumma,—a result which, under the circumstances, was unavoidable.

10. Record of Rights.—Next to a moderate assessment, I look upon a careful and accurate preparation of the record of rights as the most important part of the revision of settlement. With this view, the most minute rights affecting the welfare of a vast population have been accurately registered; numberless old and fresh disputes decided; and the transfer of landed property made an easy process.

The records of 1,105 villages have been examined and put upon a true basis. Even had double the time been expended in accomplishing so vast a work, the State would have benefitted immensely. It requires no argument to prove that, without a proper registration of landed property, the very best assessment must fail; and the efforts of the Collector should be unceasing towards keeping up these registers; for, with the rapid increase of the population, facts are altering every day; and what is now correct will, in the course of a few years, be quite inapposite and untrue.

The Tehseeldars, Canoongoes, and Putwarees require constant prompting, or they let the records fall into arrears; making the re-casting of them a difficult and tedious operation.

In compiling the records of this district, I have met with some curious 11. For instance, the "shurh nukdee" tenure, which gave all the profits to the cultivators, to the exclusion of the proprietors of the land. The former had to pay 18 per cent. only above the jumma to the proprietors, and nothing else except the village expenses. For example, the cultivators of the village of "Bhynsee," Pergunnah Khutowlee-one of the best villages in the district-paid the Nawab of Kurnaul, under the old settlement, Rs. 5,986-1-0, being 18 per cent. added to the Government demand, village expenses included. This tenure has been cancelled, with the sanction of the Government, North-Western Provinces. Under the revised settlement, the demand has been assessed at Rs. 4,000, and under the operation of Regulation XIV., 1863, the rental has been raised to Rs. 6,952-15-0,—so that the profits of the proprietors are now Rs. 2,752-11-0, where formerly they amounted only to Rs. 887-7-6, and "mulba," or village expenses, Rs. 237-9-6; total, Rs. 1,126-1-0. The injustice of limiting the landlord's profits to so small a sum, although he had to make good the revenue in bad as well as fruitful harvests, appeared to me so manifest that I lost no time in reporting the matter to the Board of Revenue; and, as I have said above, obtained sanction to abolish throughout the district what has been called "shurh nukdee." influential zemindars have personally thanked me for the part I took in restoring to them their natural position. They now say that a zemindaree is worth having, whereas under the old regime the proprietors were nothing more than annuitants, without any influence in the management of their estates. The cultivators would not allow them to set up a "Choupal," or Zemindar's Kutcherry, in the village; and even now, though I have thoroughly explained the views of Government, the hereditary cultivators pretend they do not understand why the responsibility of paying the revenue, plus the zemindar's profits, is not expressly made with them, -i. e., to exclude the landed proprietors altogether. The origin of this absurd and unjust tenure I ascribe to a mistaken leniency towards the cultivators; and the effect of it has been to make them wealthy at the cost of the landlords. Though it may be necessary to secure the cultivators from rack-renting, it surely cannot be to the interest of Government to sacrifice the zemindars to a theory of this kind.

- In several cases I observed the Settlement Officers had farmed shares without stating the limit of exclusion, in others farm was made for the period of settlement; and when the original period of settlement had run, the old proprietors petitioned the Collector of the time to restore them. The order to admit them to engagements was granted; but on appeal to the Commissioner—about 1854 or 1853—it was disallowed, because these villages having been transferred from Meerut to Moozuffernugger, the settlement was prolonged for ten years more: the exclusion for recusancy, therefore, lasted thirty years—a most severe punishment for the offence of not engaging to take up what was no doubt thought a severe jumma. Whenever these cases of hardship came before me, I invariably admitted the excluded proprietors, although the farmers tried hard to set up rights of prescription, founded on an arbitrary and illegal act of a Government Officer. Mr. Charles Grant, Assistant Settlement Department, differs with me entirely; he thinks that where the farm has extended, no matter how, beyond the legal period of twelve years, and where the original proprietors have tacitly allowed themselves to be dispossessed by not receiving "Malikana" or compensation during the period of their exclusion, the Settlement Officer has no power to order their restoration; notwithstanding any express stipulation declaring the right of the proprietors to re-entry at the close of the current settlement—a stipulation which Mr. Grant thinks was entered by the Deputy Collector merely as a repetition of some past agreement, illegal in its nature, and therefore not binding on the officers carrying out the revision of settlement. The opinion held by me is supported by the order of Secretary to Government, North-Western Provinces, to Secretary, Sudder Board of Revenue, No. 560A. of 1862.
- 13. Legally, there can be little doubt that Settlement Officers are not invested with powers to exclude recusants for the period of the settlement 12 years is the limitvide Section 3, Regulation VII., 1822; but then the equity and peculiarity of the case should be considered. Both parties have bound themselves down by acts of the Settlement Officer, who to them appeared invested with plenary powers. very first opportunity the excluded proprietors pray to be reinstated; the introduction of the canal or some other cause having rendered the estate more profitable and able to pay the revenue. The Commissioner of Revenue, another Government Officer, tells them they must wait ten years more before they can be restored. This period expires, and they care informed that a right of prescription has been growing up against them,—a right which naturally enough appeared unchallengeable, because it had the sanction of authority. In some instances, the stipulation of re-entry was renewed when the Khewuts and Khuteonees were revised before the expiry of settlement, through the agency of Tehseeldars; and yet we are told not to respect these conditions voluntarily entered into! The non-receipt of "Malikana" does not affect the question of re-entry; this is a compensation in lieu of the right to engage; and I take it that excluded proprietors can sue at any time for that portion which comes within the period of limitation; on the other hand, if they choose to let it lapse, that concerns themselves, and no one else.
- 14. The reduction in the number of Lumberdars, so as to make the office of some importance and worth having at 5 per cent. on the jumma, has proved a most unpopular measure. When a diminution in superfluous numbers has been imperatively called for, the dismissed office-bearers have invariably appealed and claimed the appointment as hereditary. Although, pecuniarily, the old Lumberdars gained nothing, still the office gave to those who held it an honorable position in the village, and the natives of this empire are peculiarly sensitive on points of this kind. The reform, however, was not effected before it had become necessary; for imperceptibly every petty "thoke" and "puttee" had succeeded in appointing its own representative, to the manifest degradation of the office.
- 15. The Board of Revenue, in their letter No. 30, dated January 18th, 1862, to the Commissioner, Meerut Division, have directed that the charge of "Malikana,"

which is a species of annuity, be converted, if possible, into an equivalent in land, and this double form of payment, where doubtful, be abolished: cases of this kind are very rare in this district. The conversion into land I found to be an utter impossibility; the zemindars will not part with an inch of ground, even though it be to effect the avoidance of a money compensation. Otherwise the Board's instructions have been fully attended to, as the following table will show:—

No.	Name of Mouzah.	Name of Applicant.	Ama Mal acco to t	ika rdi	na ng old	How disposed of.
1 2	Chokra Kussowice	Hurdeeal Omrso, and Souceram Zamin Ali Ali Hoosain Tootail Ali Ahmed Hoosain Mussumat Gheesee Imam Ali Bundeh Ali, and 5 others	Rs. 10 56 B 9 Bis	0 eega	O shs.	Cancelled, as recipient ceased to receive malikana. 56 Beegahs retained.
3	Moheeb Alipoor,			<b>As</b> . 0	P. 0	Cancelled, ditto as No. 1.
4	Nuglaraieen	Ditto as No. 3 Rungee Ram Gunput Rai	4	8	0	Rs. 4-8-0 retained; an equivalent in land could not be arranged.
5	Anchora	Dhokul	18 Be			Malikana in lieu of right to engage, proprictors having re- fused to accept the jumma. The recipient resides in the Moozuf- fernugger District.
6	Nulvee	Mahomed Ali Khan, Raees	Rs.	Ая.	P.	retnugger District.
	_	Koojpoorah	50	0	0	Cancelled, ditto as No. 1.
7	Kerarwa	Jowala Dutt	1	0	0	Ditto ditto.
8	Sutheree	Dewan Singh, Mahajun	104	0	0	Rs. 104 retained; an equivalent
9	Mookeempoor Dakhilee Mou-	Mussumat Pcaree Begum	7	0	0	in land could not be arranged. Rs. 7 retained, ditto ditto.
10	Hoosainpoor	Khair Ali, Gheesa, &1 6 others.	50	0	0	Rs. 50 retained, ditto.
11	Chitoura	Muzhur Ali,	3	8	0	Rs. 3-8-0 retained, ditto.
1	• • • • • • • • • • • • • • • • • • • •	Disoundi	"	٠	~	And o'50-0 retained, ditto.
- 1		Atta Hoosain, and 4 others	1			
12	Chowgara	Casim Ali, and 18 others	5	9	4	Rs. 5-9-4 retained, ditto.
13	Nugla kubeer	Ali Hoosain	21	0	0	Rs. 21 retained, ditto.
ļ		Mehrban Ali				• • • • • • • • • • • • • • • • • • • •
1		Futteh Ali Chujjoo	1			·
		Challoo	ł			

Note.—"The difficulties in the way of this (i. e., compromising the claim by the assignment to the original zemindars of a corresponding portion of land, &c.) are that, where there is little or no common land, there is little or no spare land, and that the original zemindar is unwilling to exchange what he conceives to be the dignity of his Malikana, the recognition of a title for the obscurity of a few acres of land, and an abandonment of that title."—Mr. Colvin's Settlement Manual.

16. In the preparation of the Administration-paper, the Khuteonees, Khewuts, and the other documents forming the Settlement Misl, I have spared no effort in making the record as accurate as possible. All attempts at copying one stereotyped form have been avoided. My aim has been to describe every village, however varied may be its features, as it exists, to leave nothing uncertain and debateable, and at the same time not to create new rights. The cultivators, too, have not lost sight of this opportunity to have themselves recorded as hereditary, in distinction from non-hereditary, peasants. The village papers for the past 12 years have materially assisted towards the solution of these questions. Time will show whether we have intelligently performed this part of our duty. In the meanwhile, I beg to claim for myself and my subordinates the merit of continued and assiduous care towards the attainment of this most desirable object. Seventeen thousand cases of all kinds have been decided, and, even allowing that a small percentage of these decisions will be reversed

in the Civil Courts, still the residue shows a considerable amount of litigation satisfactorily disposed of. The Settlement Officers have been sitting daily in open Court, willing to take up and adjudicate the complaints of all parties who considered themselves aggrieved, even after the papers have been filed, and at considerable incon-

* Norm,—17,715 cases of all sorts have been decided, and 429 appeals were decided in my Court. venience to ourselves. Thus the great mass of the agricultural classes, numbering about 280,872, have had a patient hearing; and if any disputed rights still remain, the fault lies with the parties who failed to prefer their claims.*

17. The establishment of Putwarees in this district has been thoroughly revised. New compact circles of charges have been formed, each containing contiguous mouzahs; or where the area of a mouzah is large, and its jumma considerable, it has been made the charge of a single Putwaree, with a "Gomashta" or two, as the case might be. As far as possible, I have endeavoured to retain the old order of things where the charge did not conflict with the leading principles of contiguity and moderate size, it not being desirable to remove experienced village accountants, who were suited to the wants of their chief masters, the zemindars.

The salaries of the Putwarees average about Rs. 150† per annum, are collected by the Tehseeldars, paid quarterly in their presence, † There are three grades, according to a recent Circular of Board of Reveand receipts (" Kubzool-wusool") forwarded to the nue-vide annexures. Collector. This has been hailed throughout the district as a great reform, as formerly the zemindars kept the Putwarees six months, and often The Putwaree now feels that he can be a little independent, a year, out of their pay. and can afford to speak the truth occasionally. Great watchfulness will be required to keep this establishment in good order; for nothing is more common than to find the Putwaree making annually copies of the old settlement records, without entering the intermediate changes that have occurred,—the Tehseelee officials failing to check these A list of these revised charges (or "Hulkabundees") will be found arranged pergunnahwar among the annexures of this report; they have all been arranged with great care, and will, I hope, meet with approval.

18. Mr. Colvin has suggested that Putwarees should no longer be required to keep up Paper No. VII. of the "Huftganah" Returns, showing the mutations of property. For this there are two reasons: 1st, it puts a great deal too much power in the hands of these village accountants, thereby causing extensive corruption; 2nd, in practice it has been ascertained that the registers of mutations are seldom kept correctly, notwithstanding the supervision of Tehseelee officials, and the various stringent orders issued from time to time by the Board of Revenue, and by local officers. In lieu of the present very imperfect system, it is proposed to keep a register of all transfers of property at the Tehseelee, the Canoongoe being held responsible for this duty; and in order to ensure the correctness of this highly important return, affecting valuable property all over the district, to enact certain penal clauses, making it compulsory upon all parties to register transfers, mortgages, &c., of every kind, at the Tehseelee office; failing in this, the transferees to be incapable of suing either in the Revenue

the new Registration Act was passed since the above was written.—S. to the jobbery that now takes place on the part of the Putwarees, who are represented as being very corrupt officials. So much weight is attached to the evidence of the Putwarees in the Revenue and Civil Courts, that I think it would be conducive to public justice to break the power of these people, as is being done in the settlements in Oudh. The outcry against the Putwarees is almost as great as against the exactions of the money-lenders. The evil is now assuming such magnitude that I opine legislative interference is urgently required.

19. I think it is to be regretted that, under the provisions of Regulation VII., 1822, the powers of a Collector in hearing appeals from the Covenanted Assistants

in the Settlement Department should have been so limited. Everything has to go to the Commissioner, and thus that insight into the practical working of his subordinates is lost to the Collector, who is nevertheless held responsible for the proper conduct of business in all its branches. The Assistants are junior officers, selected for efficiency, and no doubt do their work well; still it was hardly necessary to invest them with the full powers of a Collector in order to make their decisions respected by the Courts. The experience of the Collector would surely have been of great utility in arresting the mischief likely to ensue from rash or hasty decisions of the Assistants. However, I must say in this district I have received the cordial co-operation of my Assistants, Messrs. Colvin and Grant, both excellent officers; we have sometimes differed in opinion, but as a whole have worked with hearty good-will.

- 20. General Remarks.—Attached to this report will be found a statement of outstanding balances recommended for remission. These balances are the legacy left by the famine. All that could possibly be collected without encroaching upon the resources of the zemindars has been done; to push the demand any further would only result in distress, and might endanger the future revenue. It is discouraging to keep these items of balance hanging over the heads of the malgoozars; it leads to improper interference on the part of the Tehseelee officials, and therefore it is advisable that they be cleared off as early as possible. The difference between the old and new jummas arises from the reduction in the settlement at half assets. These sums appear on our "Hal Toujee" as nominal; the sanction of authority is required to expunge them. As soon as this is done, our balance-sheet will become blank, and, with ordinarily favorable seasons, we may henceforth expect to keep it so.
- 21. It is my pleasing duty to report satisfactorily of both the Covenanted Office rs engaged in the revision of the land revenue. Mr. Colvin especially deserves every praise for the able manner in which he has handled the subject. He has been present in this district throughout the settlement, and has done by far the major part of the duties,—all to my enture satisfaction.

I beg to recommend this most promising officer to the favorable consideration of the Board of Revenue.

Mr. Charles Grant, Junior, has settled the eastern portion of the district in a manner which proves him to be a thorough master of the details, and in every way a valuable Settlement Officer. Both Mr. Colvin and Mr. Grant have submitted Pergunnahwar Reports, to which I would draw attention.

Of the Uncovenanted Officers, Rae Nanuck Chund and Mirza Vicar Ali Beg are laborious and intelligent officials. The amount of work they have disposed of is considerable, and has been efficiently executed. Their integrity is as unquestionable as their assiduity.

The Tehseeldars and Canoongoes in this district are far from efficient. Had the Native Deputy Collectors not been competent, I should have found it most difficult to complete the settlement.

22. From the time I took charge of this district to the present moment, I have narrowly watched every stage of this settlement; and I trust the Board will see that I have lost no time in its completion. I have, of course, had many and various other duties to perform,—such as the general supervision of the administration of the affairs of this zillah, both in criminal and fiscal matters; the assessments of Income Tax; the new Excise system, &c. The heavy criminal cases have also been entirely in my hands; but my chief attention has been turned to the settlement as the most important duty. A few years will determine whether I have judiciously revised the land tax. Nothing has yet occurred to shake my belief in the justice and moderation of the assessments. Calamitous seasons, or any permanent injury to either the Ganges or Eastern Jumna

Canal, would of course be immediately felt; but these are adversities which no Settie-

* See separate volume regarding assessments independent of canal.

ment Officer can anticipate or provide for when they do occur: * exceptional measures must be applied to cure the evils of calamitous visitations. Under the

blessings of Providence, I look forward with great interest to a long course of prosperity for the agricultural classes residing in this flourishing district.

23. Before closing this report, I must refer briefly to those portions of the district to which the permanent settlement might be extended without injury to the State, and also to those which from peculiar circumstances are scarcely fit to be permanently assessed. The following pergunnals are unexceptionable, and might be permanently settled:—

1. Moozuffernugger.

7. Shamlee.

2. Bughra.

8. Boorhana.

3. Poor Chuppar.

9. Shikarpore.

4. Churthawul.

10. Khutowlee.

5. Thannah Bhowun.

11 Tamba Taman

a T1. .

11. Jowlee Jansuth.

6. Jhinjana.

The next pergunnahs are those which have exceptionable parts,—e. g., all those villages liable to fluvial action from large rivers, such as the Ganges and Jumna.

Under the Board's recent Circular, portions of villages liable to fluvial action have been separately marked off. (Vide Circular, Sudder Board of Revenue, No. 29, dated 7th December, 1864.)

12. Kyranah.

13. Kandhla.

14. Bhoomah Sumbulhaira.

15. Bhookurharee.

The remaining two pergunnahs—16, Bidowlee, and 17, Gordhunpore—are quite peculiar. The first has been referred to in paragraph 8 of this report; and after due deliberation with Mr. Colvin, who assessed the pergunnah, I must say there are not sufficient data for recommending a permanent settlement.

Mr. Colvin states that Bidowlee is a pergunnah inhabited for the most part by Goojurs, or by castes of a similar kind. The greater part of the land is owned by these men, and almost the whole cultivated area is cultivated by them. Owing chiefly to their indolent habits, and their indifference to agriculture, the pergunnah is in a very backward state of cultivation; more than one-half is uncultivated. Hence the Government demand has in the present settlement fallen at a very light rate. It was believed impossible -unless the ownership and cultivation of the greater part of the pergunnah were transferred to other hands—to impose other than a comparatively trifling demand. The assessment is perhaps three-fifths of what—cæteris paribus—it should be. these circumstances, it is questioned whether the present revised assessment should be declared permanent. There are, I think, two considerations, -the one, whether Government, consistently with a due regard to its rights and interests, should render permanent so exceptional an assessment; the other, whether a tax so relatively light with regard to other land-owners can be justly declared permanent. With regard to the first, the present assessment is no doubt very light; but is there any reason for supposing that a temporary settlement would enable the Government hereafter to increase the demand? The result of the last temporary settlement has been a reduction of Rs. 13,000 in the de-I know of no instance in point. The Goojurs in Kandhla have certainly increased their cultivation, but they are otherwise placed, the canal irrigating every inch Whether a light assessment without extraneous advantages will have a similar result is, as far as I know, matter only of conjecture. A light assessment may make agriculture more profitable than cattle, but not sufficiently profitable to destroy old habits and make these men industrious. Hence I think it would be practically inoperative. Under this view, a temporary settlement would bring us no nearer raising the demand, while it would hinder benefits which permanency can alone fully guarantee.

25. Secondly, as regards the relative fairness of the demand. If the Bidowlee assessment is declared permanent, there is no doubt that the average on the Bidowlee land-holder, after eliminating all disturbing elements, will be far less than on his neighbours in the adjacent pergunnahs; but it has already been seen that there is no ground for supposing that a temporary settlement would reduce the inequality, allowing that the inequality might, under a temporary settlement, be reduced. consideration outweigh all others? If among such a people it could be hoped that a temporary settlement equalizing the land tax, combining with the advantages of a permanent settlement, could be secured, there could be no objection to a temporary settle-But this being highly improbable, is the absolute equality of the incidence of the tax to be preferred to the chance of civilizing and reforming a thieving and blackguard population? As regards Government, I certainly think not; nor, on closer inspection, as regards the people. An honest and industrious man paying Re. 1 per acre may feel indignant at the rogue paying 10 annas permanently; but, after all, it must be the interest of the honest man to live unmolested by the malpractices of the rogue. It surely cannot be to the advantage of any one to make the indolent pay an acreage of 13 annas, liable to enhancement, and retaining his predatory habits." *

I have endeavoured to place before you both sides of the argument; it is for superior authority to determine their relative value.

26. Pergunnah Gordhunpore, like Bidowlee, only in another way, is peculiarly situated; a number of estates have been destroyed by percolation, either from the Solainee River or the Ganges Canal. Mr. Keene assessed this pergunnah before I took charge in March, 1862; and in January, 1864, swamp had increased so much, I was obliged to revise the new assessments. In a note attached to what is called the Choel Circle—vide No. II. Statements—I have given my reasons for the large reductions upon Mr. Keene's proposed jummas. There was no help for it: the demand was not realizable upon these estates; and in the remarks attached to each village I have suggested that these nominal jummas should be revised quinquennially, as in cases of alluvion and diluvian. Annexed to this Report will be found a list of these swampy ("Choel") estates, which have been handed over to the Canal authorities to drain,—vide correspondence closing with Collector's letter No. 235, dated 29th December, 1863, to Commissioner, Meerut.

27. List of villages liable to fluvial action :-

Pergunnah.	Mouzah.	Former Jumns.	Present Jumna.	Remarks.	
Kyranah	Mamour	Rs. As. P  90 4 0 215 0 0 2,700 0 0 584 0 0 950 0 0 310 0 0 1,359 0 0 647 0 0	Rs. As. P.  120 0 0  350 0 0  3,000 0 0  484 0 0  750 0 0  310 0 0  1,359 0 0  450 0 0	Both the Jumna and Ganges Rivers are so capricious in their action, so violent in floods, that it is more than probable many of these estates will hereafter come under revision.	
Kandhla	Esapoor Shairoo Ditto Dhunsingh Pokapoor Busee Dhoondoo Khaira	365 0 0 608 8 0 150 0 0 605 0 0 2,560 0 0	477 0 0 481 0 0 225 0 0 605 0 0 2,000 0 0		

^{*} Note.—" Villages belonging to such persons (Goojurs, Mewatees, and Mhaies) will generally be found poorly cultivated, nor ought an assessment proportionate to the capability of the soil to be fixed upon them. If the assessment be too heavy, the progress made in the moral reclamation of the people cannot but be slow."—Directions to Settlement Officers.

Pergunnah.	Mouzah.	For Jun		•	Pre Jun		-	Remarks.	
			Rs.	As.	P.	Rs.	Aв.	P.	
Bhoomah Sumbulhaira,	Gaoree Rampoor Tokra Gokulpoor Cheepa Kumoowala Jullalpoor Kazee Nizampoor Khola Khanjehanpoor Dhurumpoora Lalpoor Reherwa Hunsawala Hoteewala Khaira Mujaidpoor Hoosainpoor Khadir Subcerwala Khuruk Bailee Bailee Nouburamud		425 1,992 4 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0		0 0 0 0 0 0	000000000000000000000000000000000000000	Formerly these five mouzabs paid one jumma of Rs. 1,616; in the present settlement they are divided. From 1270 Fuslee to 1279 F., to close of settlement.

Besides these villages bordering on the Ganges River, the whole of the khadir may be said to be in a very primitive state; but I doubt if these estates are ever likely to improve much: the population is thin, and in the rains the land is much flooded. To the proprietors, a temporary settlement would be very discouraging—so Syud Hoosein Ali Khan says; but Government cannot afford to throw away future revenue realizable from increased cultivation.

There are villages of the same description in Pergunnahs Bidowlee and Gordhunpore. It is for superior authority to determine whether pergunnahs containing a number of villages liable to fluvial action shall receive the privilege of a permanent assessment.

- 28. Annexed will be found the A. and B. Outstanding Balances Statements. I have recommended Rs. 30,721-1-11 to be remitted. These balances are due mostly to drought. All that was realizable has been collected; there remain only those items which it would be highly impolitic to attempt to recover, because it would straighten the means of the proprietors. As the Board justly remark, these outstanding balances lead to improper interference on the part of the Tehseelee officials; and the sooner they are disposed of the better.
- 29. During the currency of the revision of settlement, those villages which were assessed above half assets have been allowed a reduction of jumma. Similarly those estates which were under-assessed have had their jummas raised; but as these items are not sanctioned, it will be necessary to obtain formal authority to adjust these accounts. It is clear that until the revised assessment of the land revenue is approved of by Gov-

ernment, the annual account must be made up according to the old demand, any

These reductions and augmentations will of course be cleared off immediately; the revised assessments are canctioned.

deficiency or excess being shown separately. reductions of jumma up to 30th April, 1865, requiring sanction, amount to Rs. 2,31,161-7-0; excess collected, owing to increase in jumma, and realized during

the progress of revision, but not formally sanctioned, amount to Rs. 1,53,623-1-11.

- I have said before that the total of the land revenue will be Rs. 11,19,127-10-0, and when the life rent-free holdings fall in it will be Rs. 11,29,221-10-0. To collect this there are four Tehseel establishments placed at convenient spots. I am not aware that any alteration is required in their location. There is only one pergunnah that is at all inaccessible in the rains, and that is Gordhunpore. At that season it frequently takes the dak runners-or rather messengers-three days to pass between Mozuffernugger and Gordhunpore. Even in the month of January of this year I was obliged to make a long circuit by Munglour and Landhora - both in the Saharunpore District—before I could reach the northern parts of the pergunnah: all the ghâts were impassable to men or carriage. Nevertheless I do not see how this pergunnah can be eliminated from the limits of this district. If there had been an officer with full powers placed in charge of a sub-division at Roorkee, I should certainly have proposed to increase his jurisdiction by the addition of Gordhunpore.
- Among the appendices* will be found the prescribed statements and other statistical information called for by the Board of * Commencing with the reverse of Revenue; great care has been taken to make these next page. returns as accurate as possible. I have endeavoured to collate information upon all essential points, and to place my propositions clearly before superior authority. I earnestly hope I have succeeded; but if there should be anything wanting, I will do my best to supply the omission.

S. N. MARTIN, Collector.

Circular Order No. T., dated 16th July, 1861; also Circular Order, Board of Revenue, No. 24, dated 25th October, 1864.

By the Circulars marginally noted the Board has ordered the amount of revenue due to canal irrigation to be separately entered in the No. II. Statements. I have made a distinct volume of this account; it will be found among the accompaniments of this Report.

Inclusive of canal profits, the jumma for the whole district would be Rupees 11,19,127-10-0.

Exclusive of canal profits, by natural capability, the jumma amounts to Rupees 10,44,297-10-0.

# Statement showing the rates of the revised assessment per acre

1.		2.		ð.		4,	5.	6.	7.	8.	9.	10.
										Population.		M.
							Culturable.	Rent-free.	Waste.	Agricultural.	Non-agricultural.	Total,
							18,986	4,399	9,040	13,841	14,926	28,767
							20,546	3,033	11,101	6,629	12,462	19,091
							17,561	99#	7,623	9,185	3,985	13,170
							6,521	<b>5</b> 0	8,423	14,237	23,090	36,327
							5,923	1,128	8,477	16,618	29,441	46,059
							8,328	2,932	7,844	13,898	28,531	42,429
							7,114	539	6,363	13,037	21,545	34,589
							6,644	1,210	9,742	11,149	17,608	28,757
							7,497	539	6,659	12,634	14,698	27,332
							11,746	6,389	9,242	10,495	25,196	35,621
							ļ	[	}	12,213	18,661	30,874
12. Shamlee	•••									21,185	30,621	51,806
13. Kyranah	•••									12,899	19,623	32,522
14. Khatowice	***									17,042	25,342	42,384
15. Jowlee Jansut	***									12,885	17,091	29,976
16. Bhokurhairee	***									14,030	19,302	33,332
17. Kandhia	***									30,747	27,921	58,668
Total of District		1,19	3 10,3	3,46	8 6,	50,173	1,97,931	<del>3</del> 2,789	1,62,575	2,42,724	3,48,973	5,91,697

of cultivation, &c., and per head of population.

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^{*} Actual decrease by revision, Rs. 712-3-7 over the whole zillah; but a very considerable increase if the difference between a half-asset and two-thirds jumma be considered. In addition to the above, Rs. 11,423 has been acquired by the Permanent Settlement; and Rs. 10,094 will gradually fall in for life masses.

S. N. MARTIN, Collector.

Approximate Estimate of the amount of Revenue for the whole District due to the influence of Irrigation from Canals.

		. (	50	)	
. 11.	Net gain to the District from the influence of Canals.		Ra.	72,606	After deducting a sum of Rs. 2,225, properly due to deterioration from Canal.
10	Rovised jumms.		si Es	12,913	
o;	Former jumma.		Pg.	15,138	
æ	Number of villages injuriously affected Former jumma. Rovised jumma. by Canal.			19	
7.	Portion of increase attributable exclusively to influence of Canal.		Re.	74,830	By second estimate, under orders of Se- nior Member, Board of Revenue.
ç	Іпстевве.		Rs.	53,544	
, 64	Former aggre- gate jumma of Revised jumma, these villages.		Bå.	6,42,077	
4	Former aggregate funma of these villages.		Ba	. 5,88,583	
<b>లో</b>	Area under Canal irri- gation.			1,85,224	
લં	Number of villages irri- gated.			631	
ι:	District.			Mozuffernugger	

This Estimate is an approximation only to the truth; but I have little doubt in my own mind that the Canal really produces more than Es. 74,830 of revenue. Canals are now a sine quâ non to those villages which have once used the water.

S. N. MARTIN,

Collector.

An account of the origin and subsequent history of the Syud families in the District of Mozuffernugger; translated from the Vernacular, by R. J. Leeds, Esquire, Assistant Collector.

THE settlement proceedings in Mozuffernugger having been brought to a conclusion in 1864, under the direction of S. N. Martin, Esquire, Collector, by his order, and with a view to the preparation of the final report, an enquiry took place into the genealogy and present circumstances of the twelve Syud families, who are for the most part residents of Pergunnahs Khatowlee, Mozuffernugger, Jhansuth, Bhookherairee, &c., in this zillah.

In obedience to that order this chronological account has been compiled. It has been taken as far as possible from the old biographers, and from the reports of those at present living who are cognizant of the facts of the case.

The origin of the arrival of the Syuds in this country and in this zillah is shown to be after this wise:—Syud Abdul Fera, the ancestor of this family, was an inhabitant of one of the towns in the vicinity of Bagdad. In the year of the Hejira 652—corresponding with A. D. 1250—Sultan Halaku Khan killed Mustasim Bila, the Sovereign of Bagdad, and possessed himself of the whole of Bagdad, together with Persia and Arabia; and, through his tyranny and oppression, so great a change took place that Syud Abdul Fera, at the time when Nasir-ood-deen, the son of Shums-ood-deen Altamash, was Emperor of Dehli, came into this country with his twelve sons, and remained here until the time of Secunder Lodi, when he received news of the death of Halaku Khan, and formed the intention of returning to his native land. By command of the Emperor he left four of his sons—Syud Daud, Syud Abul Fazl, Syud Abul Fazail, and Syud Nazim-ood-deen Hussain—in the Imperial service, and returned with the remaining eight to his own country.

#### SECTION I.

An account of the places of abode chosen by each of the four sons of Syud Abdul Fera.

After the return of Abdul Fora, Syud Daud made choice of the village of Tainpoor as a place of residence; Syud Abdul Fazl, of Chatbanoor, Syud Abdul Fazail, of Kundali, and Syud Nazim-ood-deen Hussain, of Jagner, District Puttiala, in the Punjab; and, continuing in the service of the Emperor Shahab-ood-deen Gori, arrived at such a pitch of elevation and favor that they obtained permission to settle in whatever place was most agreeable to them; accordingly they made choice of the tract of land in this zillah lying between the Rivers Ganges and Jumna. From this time the family was divided into two branches,—one of which settled at Belgaram in Oude, and is numerously represented there at this day; and the other branch is that from which the twelve Syud families who are settled in this zillah are descended.

#### SECTION II.

The meaning of the appellation "twelve Syud families" ("Barah Saiyadat").

With respect to this term, there are several accounts current amongst the Syuds of this branch of the family. One is this,—that on their first coming into this country, these people remained for some time in the service of the Emperor, but (lushkar se bahir) without the camp—that is, they resided apart. From this cause they were known as the bahir ke Saiyadat. In time bahir became corrupted into barah.

The second account is this,—That the religion of this tribe is that of Ali Imamiya, and that on account of their reverence for the twelve (barah) Imams, they were known as the twelve.

The third account is this,—That wherever twelve, fifteen, or twenty villages are occupied by one tribe, and they acquire distinction by the acquisition of landed property in that neighbourhood, that collection of villages becomes known as the twelve villages of the caste to which they belong. Thus, in Zillah Boolundshuhur, Pergunnah Ahar, Tehseel Anoopshuhur, the twelve villages of the Pathans are well known.

The fourth account is this,—That this word was originally abrar, and that in the first place the tribe was known as the Saiyadat abrar—that is, the pure Syuds—just as at the present day they are known as the Saiyadat uzam, the great Syuds; and that abrar became corrupted in the speech of the common people into barah. Although the truth of no one opinion is sufficiently established, yet the majority of persons are in favor of the first explanation.

#### SECTION III.

Account of the formation of four branches corresponding with the four sons of Syud Abdul Fera, the common ancestor.

In Section I. it is stated that Syud Daud took up his residence at the village of Tainpoor, Abdul Fazl at Chattanoor, Abdul Fazail at Kundali, and Nazim-ood-deen at Jagner. Thence it is that each branch became known by the name of that village where it had first settled, as shown in the following table:—

#### SYUD ABDUL FERA.

Syud Daud.	Syud Abdul Fazl.	Syud Abdul Fazail.	Syud Nazim-ood-deen.
First settled at Tainpore; went from thence to Dansrec. Head of the Tainpoorie Branch.	First settled at Chabba- noor; went from thence to Sumbhulhera. Head of the Chatraorie Branch.	First settled at Kundali; went from thence to Magera. Head of the Kundhwar Branch.	First settled at Jagner; went from thence to Bidoli. Head of the Jagneree Branch.

#### SECTION IV.

Some account of the descendants of Syud Daud, founder of the Tainpoorie Branch.

Synd Khan Meer, in the eighth generation from Synd Daud, leaving Tainpoor, came and settled in the village of Dansree, Pergunnah Jowlee Jansuth. He had four sons,—Synd Meer Shaid, Synd Jaman, Synd Hussain, and Synd Ahmed,—who became known by the appellation of Tainpoorie. All the Synds who are known by the surname of Tainpoorie are descended from Khan Meer, the eldest son of Synd Daud. In course of time they settled in other villages; but at the present time there is no family of Synds in the village of Dansree. The particulars relating to the four sons of Synd Khan Meer are as follows:—Synd Meer Shaid, the eldest son of Khan Meer, settled in the town of Jansuth. Previous to his arrival the land-holders of that village were Jâts and Brahmins, but after a time the descendants of Synd Meer Shaid acquired the proprietary rights in the land of that village; and at a still later period his descendants arrived at such a state of prosperity that, in the reign of the Emperor Bahadoor Shah, 1119 of the Hejira, this place became known far and wide.

About 162 years ago, Hussun Ali Khan, the eldest son, and Hussain Ali Khan, the youngest son of Abd-ool-lah Khan, Wazir, received a yearly allowance of Rs. 50,000 from the Emperor Aurungzebe; and besides this the Government of the Province of Allahabad was bestowed on Hussun Ali Khan, and that of the Province of Behar on Hoossain Ali Khan; and the Emperor Ferok Shah conferred on the elder son the title of Abd-ool-lah Khan Kootub-ul-mulk, and on the younger son the title of Ameer-ool-Umra, and invested him with the command of the army. A short time after, in the same reign, the decay of their grandeur commenced, and was hastened by the enmity of the Mogul nobility. In 1141 of the Hejira, in the reign of the Emperor Mahomed Shah, Hussain Ali Khan, the Commander-in-Chief of the Army, was slain during a journey by the hand of Mahomed Amir Khan, a dependant of Kumr-ood-deen Khan. Hussain Ali Khan the Emperor seized, and, after keeping him in prison a few days, put him to death. Sarf-ood-deen Ali Khan, their youngest brother, with a number of his class, having subdued a portion of the Doab country, the Emperor led an army into the district and took possession of it. From that era the fortunes of the Syuds were

on the wane. The descendants of Meer Syud are now to be found in the town of Jansuth.

#### SECTION V.

Some account of the descendants of Syud Zuman, second son of Syud Khan Meer.

Syud Zuman, leaving the village of Dansree, settled at Chittora, in the Pergunnah of Jowlee Jansuth. Syud Julal attained to a high rank in the reign of the Emperor Shahjehan. He took up his abode at the village of Kirwa (Julalpore), in the District of Surdhunnah, in Zillah Meerut, and acquired the proprietary rights in about twenty-four villages.

Mahomed Sulah Khan, taking service in the kingdom of Oude, after a short time, by the construction of a bazaar and other buildings extending for half a mile, raised this village to the dignity of a town; but Mahomed Sulah Khan died without children, and Shumsh, the son of Julal, left the Imperial service.

From this cause we may trace the loss of their former power. Synd Shumsh left two sons,—Husd Ali and Asjhrab Ali. The descendants of Asjhrab Ali are now living in the village of Kurora, District Surdunnah, Zillah Meerut; and the descendants of Hasd Ali at Chittora. The inhabitants of Chittora, in 1842 and 1843, on account of their poverty, sold the whole of the bricks from the ruins of this place for Rs. 10,000 to Government, and they were used in the construction of the bridges over the Ganges Canal. At the present time, some very slight traces of the former buildings may be seen in the neighbourhood of the village, and the Synds who live there are much impoverished. On this account this village is in a bad state, and the dwellings are without any of their former pretensions; and the single village of Chittora is now the only landed property they possess.

#### SECTION VI.

Some account of the descendants of Syud Hunsur, third son of Khan Meer.

Syud Hunsur, leaving the village of Dansree, went first to the village of Beharee, in Mozuffernugger. Six sons were born to him, -Syud Kootub, Syud Sultan, Syud Yusuf, Syud Khan, Syud Man, and Syud Nasir-ood-deen. The Syuds of Belaspore, Mozuffernuggur, are descended from Syud Kootub. It is evident from the remains of former buildings, that the members of this family were in the Imperial service. At the present time, the greater number of the Syuds of this village are either small proprietors or simple cultivators, and some are in service. Syud Masum Ali Khan, the leading man of this village, is an Extra Assistant Commissioner in the Punjab, at Mooltan. The Syuds of Rateri are also descended from this family. The descendants of Sultan, the second son, dwell in great numbers in the village of Sundowlee, Mozuffernugger. In former times, many members of this family were in the Imperial service. The buildings constructed by them are still in existence; and at the present time many of the Syuds of this village are zemindars, maafeedars, and cultivators; and Bahadur Husain is a Tehseeldar in Umballa. The descendants of Yusuf, the third son, are residents in the villages of Beharee and Wailua. They also are zemindars, manfeedars, and cultivators; but in old time their ancestors were persons of rank in the Imperial Court. Syud Khan and Syud Man, two of the sons, died without children; and Nasir-ood-deen, the sixth son of Hunsur, known as the Nawab Khan Jahan Khan, and also as Moozuffur Khan, in the reign of the Emperor Shahjehan, attained such prosperity that forty villages in Pergunnah Khutowli, and ten thousand beegahs of land free in perpetuity from Government revenue were bestowed on him, and that rent-free land is still in possession of the descendants of those to whom it was originally granted; and at that time the title of Abul Moozuffur was bestowed on the Nawab Khan Jahan Khan; and he giving his name to Mozuffernugger raised it to the rank of a town; and the descendants of Lashkar Khan, his second son, are still to be found in great numbers in Mungr and other villages. Abul Munsoor Khan, the third son, gave his name to Munscorpore, and his descendants are still residing at that place and Kuttowli, and possess the landed property and the old grants of rent-free land; and the family of Munscorpore is still one of distinction.

#### SECTION VII.

Some account of the descendants of Syud Ahmud, the fourth son of Syud Khan Meer.

Syud Ahmud, leaving the village of Dansree, fixed his residence at the village of Kawal, Pergunnah Jowli Jansuth; his descendants are now to be found in that same village. Tatar Khan and Dewan Yar Mahommed, members of this family, were persons of distinction in the reign of the Emperor Alumgir; and their fine buildings are still in existence; their descendants have landed property in Kawal, and the Syuds of this branch in the last-mentioned village are persons of importance.

### SECTION VIII.

Some account of the descendants of Syud Abul Fazl, of the Chatrori Branch, second son of Abdul Fera.

Syud Abdul Fazl, the second son of Abdul Fera, chose the village of Chatbanoor. One of his descendants, Syud Hasu Fakir-ood-deen, in the reign of the Emperor Akhbar Shah, through his devotion to field sports in this neighbourhood, formed an intimacy. with the Rajah of Sumbulhera, and his son Ram Chund. Soon after, the Rajah dying, his son was confirmed in his dignity by the aid of Hasn Fakir-cod-deen. Not long after Ram Chund died without children, and his wife was secured in the title of Raneo by the same assistance; and the friendly union between the two families was strengthened to such a degree that the Rance, adopting Hasn Fakir-ood-deen as her son, made a gift of all her property to him; and after the gift had been sanctioned by the Imperial Court, she made over possession to him in her life-time. For this reason, Hasn Fakir-ood-deen settled at Sumbulhera, where his descendants are still to be found. Another branch of them are living in the village of Tipa. Among the descendants of Synd Hadiga were four brothers, - Synd Ali, Synd Ahmud, Synd Taq-ood-deen, and Synd Salah. Synd Ali died without children; Synd Ahmud was killed in a war between the Emperor Ala-ood-deen Gori and the Rajah Ratn Sen, of Chitaghore; Syud Gadan, his descendant in the fourth generation, settled in the village of Kailadai, Pergunnah Khutowlee, and his descendants were persons of importance in past times; and by the favour of the Emperor Mahomed Shah, Ali Khan rose to high rank. grand buildings he caused to be erected are still in existence in the village referred to, and his family is distinguished among the twelve (Barah Saiyadat). Syud Meer, son of Saj-ood-deen, left Sumbulhera for Kukrowlee; and great numbers of his descendants are to be found at this day in those two villages; and Syud Ali Hasn is accounted a person of importance among the inhabitants of Kukrowlee, from his rank of Talookdar. The buildings erected by the various members of the family in this village are very handsome. This family is also settled in the village of Berai.

#### SECTION IX.

Account of the descendants of Syud Salah Auluya, the fourth son.

Syud Salah left Sumbulhera for Kayatora, a village which derived its name from the fact of the land belonging to the Kayaths. A widow belonging to that caste was the most wealthy of the zemindars, and had one son who was killed by a tiger in the vicinity of the village. She caused it to be proclaimed that if any one would kill the tiger she would give him the half of her property. Syud Salah arriving about that time, killed the tiger; and the woman, from joy at the death of the animal, presented him with the whole of the village, and, adoping him as her son, made him live with her. From that time the Syuds have lived in Kayatora. Syud Salah had two sons,—Haidar Khan and Mahommed Khan; and the descendants of the latter in Kayatora became known as the Mahommed Khani family; and those of the former in Meeranpore, where they settled, as the Haidar Khani family.

Nawab Nasarat Yar Khan and Ruka-ood-dowla, members of the family of Mahommed Khan, were appointed in the reign of Alumgir to the Government of the Provinces of Gujarat, Agra, and Patna, with a monthly allowance of Rs. 5,000; and twenty-eight rent-free villages in Pergunnah Narjol, in the district of Ahmedabad, were granted to them in perpetuity. They remained in possession until 1850; since that time the property has been farmed by Feroz Shah. The buildings formerly erected by this family are to be seen in great numbers in the village at the present time.

The Syuds of this village are partly landed proprietors, and partly cultivators and domestic servants; and in the family of Haidar Khan the Nawab Shahomat Khan, who founded the town of Meeranpore, is the most known to fame. The descendants of Haidar Khan are still settled in the villages of Meeranpore, Gardalai, and Bhopai. With respect to Meeranpore, it is stated that he purchased some land suited for a village between Khargatora and Baleepore, and founded the town, as mentioned above. There was no cultivated nor cultivable land attached to the village at that time, but subsequently some land formerly occupied by village sites was taken into cultivation, and a jumma of Rs. 40 fixed upon it. Most of the Syuds of this branch are in service at this time. Syud Tuffuzzool Hussain is Tehseeldar of Sirdhana, Zillah Meerut.

#### SECTION X.

Account of the descendants of Syud Abul Fazail, and of the origin of the name given to the village of Majhera.

Synd Abul Fazail, leaving the village of Kundalee, in Palnala, settled in Majhera; moreover, he was the founder of it. It would seem that the land produced moon in great quantities; hence its name of Munjhera. At the present day the traces of pucka buildings are to be seen uninterruptedly on the road from Munjhera to Mnacepore, a distance of about two miles; and the village of Baleepore, which lies between the two, and in which Wali Mahomed lives, was at one time a mohulla of Munjhera, the Synds of which place were men of note and distinction in the Courts of the Mogul sovereigns. In the present day, the Synds of this branch are distributed among the villages of Baleepoora, Rajherera, Tissong, Sandhera, Munjhera, and Hoshampore; but many of them are absent from their native villages. Synd Gholam Hussein, of Baleepoora, and Synd Imdad Hussein, of Tissong, Tehseeldar of Anoopshuhar, Zillah Boolundshuhur, are men of station. The inhabitants of Munjhera are very illiterate, and earn their livelihood by agricultural and manual labor; the village itself being destitute of all pretension, and presenting a very forlorn appearance.

#### SECTION XI.

Account of the Syude of the Jagneree Branch,—i. e., the descendants of Nazim-ood-deen Hussein.

Synd Kumr-ood-deen, the son of Nazim-ood-deen Hussein, left Jagner and went to Bidowlee; and Synd Fuzl-ood-deen Khan, some generations later, removed from Bidowlee to Paleree, in the Pergunnah of Jowlee Jansuth, and bought the landed property in the villages of Paleree, Chandoree, Chandorai, Julseepore, and Kheree, from the proprietors, men of various castes. For a long time it remained in the possession of the family, but after the late settlement they were forced to sell the proprietary rights in the other villages on account of the deficient harvest occasioned by the drought; and at the present time they only possess a two-biswah share in Paleree itself. The others earn their livelihood by agriculture, manual labor, and domestic service, and many more through poverty have left their homes and are still missing; but the members of this family are to be found in great numbers in the town of Bidowlee, and in the Districts of Paneeput and Delhi. In this district—Mozuffernugger—they have no landed property, with the exception of that in the village of Paleree.

- S. N. MARTIN, Collector.

## PERGUNNAH MOZUFFERNUGGER.

Originally this pergunnah was known by the name of Tuppeh Surwut, the chief town being Surwut, within half a mile of the present site of Mozuffernugger, and where the remains of tolerable extensive brick foundations are still to be seen.

In the reign of the Emperor Shahjehan Ghazee, Pergunnahs Surwut and Khatowlee were bestowed by sunnud on Syud Moozuffur Khan, alias Khanjehan, resident of Beharce, who received the titles of Chowdree and Zemindar. Finding Surwut almost entirely deserted, Syud Moozuffur Khan took some land from Soojroo, otherwise known as "Khoosa Khaira," and, uniting it with Surwut, called the whole, after his own name, Mozuffernugger: this occurred about the year 1046 Fuslee. The pergunnah gradually extended, till it comprised 44 mouzahs, held entirely by Syuds (Bara Saadut, or families of Syuds), followers of Syud Moozuffur Khan. At the settlement under Regulation IX., 1833, 20 more mouzahs were added, making in all 64 mouzahs in this pergunnah, for the most part the property of Syuds, with a small sprinkling of Gharrahs, Tuggas, and Goojurs. At the present time, the Syuds have almost entirely dis appeared, the money-lenders having stepped into their places. As a rule, the Syuds have been extremely improvident; they have been living beyond their means, and were obliged in consequence to borrow from the mahajuns at a high rate of interest; the time of reckoning came upon them unexpectedly, and, unable to pay, their estates were brought to the hammer.

I do not think this is to be regretted (there are exceptional cases, as I subsequently found when settling the Pergunnah of Bugra), although in some instances the creditors may have acted harshly, if not unscrupulously. The Syuds are a very indolent race, and seldom pay any attention to the improvement of their estates. On the other hand, the mahajuns, hard masters though they be, not unfrequently expend considerable sums in digging wells, tanks, setting up sugar mills, &c., with the view of raising their profits and improving their property. The same effect is to be seen elsewhere: the indolent and unthrifty give way to the energetic and frugal capitalists; and this should not be cause of regret, provided always that the buneahs do not acquire landed property by exacting usurious rates of interest, or by resorting to any of the improper practices, through the aid of the Civil Court, for which they receive credit. I can hardly believe that any man, however urgent his wants, would hold any money dealings with these bankers, if they practised one-half the rescalities which the wealthy natives of this district are accused of doing, in the way of business. There is no doubt that much that is said is attributable to envy; the Syuds do not like to see their neighbours rising to prosperity, whilst their own position is daily growing worse. I have little doubt that there are faults on both sides, on the part of the lender as well as borrower. Having been over the whole of this pergunnah, I observed that the remarkable features and differences of soil which characterise its component parts may be divided into the following classes:-

I.—The most fertile are the villages in the centre of the pergunnah, possessing a very large proportion of canal-irrigated meesun lands, and plenty of resident cultivators. Such villages are—Koorkoorah, Moostafabad, Puchenda Kulan, Meghakhrie, Ratharie, Nuseerpore, Surwut, Bujhairie, Budhairie, Almaspore, and Mukiyalee.

II.—The second class are those in which, although there are advantages of canal irrigation, the soil is not so kind. These villages are to be found slightly to the north and south of the pergunnah,—viz., Bumanhairee, Sherpore, Rampore, &c., to the north; Sulajoodee, Behadurpore, Hoomaeenpore, Narana, &c., to the south.

III.—The worst and most unpromising of all are the unirrigated villages on the west side of the Kalee Nuddee. Here the soil is of a light porous nature, entirely dependent upon the rains; even then the crops it produces are extremely poor. The only good villages on the western bank are those of Luchaira and Moulehairee, their

superiority arising from well irrigation. The others are, Kohana, Desatpore, Sadhpore, Mulerah, Sulaimpore, Rookunpore, and others. The same remarks apply to the villages on the eastern side of the nuddee,—viz., Khampore and Budeoola.

There are some inferior Bhoor villages to the east of the pergunnah, skirting along both sides of the sand hills which run from north to south; these are, Kumbhairee, Tikuree, Ghutmujhaira, Dhundaira, &c. So fine is the dust, that in high winds the soil rapidly shifts about from place to place; e. g., on the road to Gowlee from Mozuffernugger, every now and then incipient sand hills are to be found running across the thoroughfare, and evidently recently deposited.

It is possible the chain of sand hills (vide paragraph 4 of Mr. E. Thornton's Report) already referred to, running from north to south, are similar accumulations of ages; for as soon as a bank is once formed, the rapidity with which the mass increases is astonishing.

A rajbuha runs on the west side of the sand hill, but its effects are not sufficiently visible to form any grounds for an opinion
as to how far the face of the country will, in an
agricultural point of view, be improved.

Much manure and new layers of earth are required to make the soil productive.

On the whole, the pergunnah has improved greatly since water has been supplied from the Ganges Canal; this will be shown more clearly in a separate statement, in which I have exhibited the amount of profit to be credited to the Canal Department.

On the 15th March, 1862, I assumed charge of the Mozuffernugger District, and with it, of course, the direction of the settlement in progress. I found that the five Pergunnahs of Boorhana, Shikarpore, Goordunpore, Bedowlee, and Thaunah Bhowan had been personally examined and assessed by Messrs. Keene and Colvin. Both these officers had reported their proceedings, but the Statements Nos. II., III., which ought to accompany, were not ready; consequently I detained their reports for orders.

- 2. I first turned my attention to the Mozuffernugger Huzoor Tehseelee, in which the measurements had been completed, the necessary data collected, and ample notes drawn out by Mr. Keene and his deputies, after having visited all of the mouzahs under settlement. Upon enquiry, I ascertained that a considerable difference had occurred in the general character of the cultivation of this Tehseelee, bordering on the Ganges Canal. Many rajbuhas or canal cuts had been made since the completion of the measurements in 1860. Again, in other mouzahs, the landholders were purposely holding back in hopes of getting their estates dotted down as unirrigated, though capable of irrigation. It was therefore necessary to institute a strict enquiry into the present, and what was likely to be the future, condition of all such estates capable of receiving canal irrigation before a proper estimate could be formed of their net assets over a series of years.
- 3. Having organized a party of inspection under the Tehseeldar and Canoon-goes, who received instructions to place no undue reliance on the Putwarees' papers, I myself proceeded to make local investigations, while the Rubbee crop of 1269

* Mr. Keene also had inspected this pergunnah. I subsequently revisited the whole of the pergunnah. The pergunnah three-fourths of the pergunnah my enquiries are given

Fusice was on the ground. I personally revisited three-fourths of the pergunnah, and the results of my enquiries are given in this report.

It is as well to mention that, although there were returns both in English and Vernacular of the number of beegahs under irrigation, prepared by the Superintendent, Canal Department, yet these returns were not sufficiently accurate; they did not

correspond with each other, nor were they very recent. The whole of the irrigated area, therefore, was re-investigated and corrected up to date. The subjoined table gives the whole area of the Mozuffernugger Pergunnah in acres:—

. Irrigated.	Unirrigated.	Culturable,	Waste, including maâfee. (Minhaie.)	Total area.
21,664	20,253	8,328	10,776	61,021

4. Mr. Keene has mentioned in his report the different methods he adopted in framing his rental estimates. The first two of his estimates are derived from the nikasee papers, by taking an average of the nijkaree, or rents in kind, over five years, applying the money value there mentioned to the average of produce, and adding this on to the quinquennial average of the zubtee, or rents in money, which are always accepted as recorded. The difference in the second estimate is, the zubtee and nijkaree money value are added together, to get a rent-rate for the whole cultivated area. These nikasees, however, are never very reliable. Where farms exist, an approximate rental estimate, can be very easily obtained; these farms are called "tushkhees." In the third estimate, the zubtee rents the same as above; the

Mr. Thornton appraised 14,574 acres before he made produce tables,—see paragraph 17 of his Report,—and took kunkoot chittas from the people themselves for 413,650 acres,—see paragraph 18.

This estimate is intended to cover

This estimate is intended to cover rise in rentals. For a full description of these estimates, see Mr. Thornton's Appendices No. 2 and No. 5, paragraph 21 of Settlement Report for Mozuffernugger.

nijkaree is produced by applying Mr. E. Thornton's tables, showing what ought to have been the outturn on similar lands under similar circumstances, and in average years, reduced to money value by the average prices of ten years, excluding the year of famine as an exceptional one. A fourth is added to the sum-total, so as to make up the present price of produce in the fourth estimate, which is got by

applying Mr. Thornton's chuk, or circle rent-rates,—that officer having divided the whole district into various circles, classified according to the kinds of soil prevailing in the neighbourhood. Both these data derived from Mr. E. Thornton's settlement report are exceedingly valuable,—vide sample of all these estimates given among the Appendices, viz., Mouzah Aurungabad, a Bhyachara estate. The circle rates, however, though I have assumed them as my standard, are high, when one-fourth is added for the increase of prices. The total pergunnah estimate equals Rs. 1,55,000.

The rental of the pergunnah, including life-maafees, according to my estimate, is Rs. 1,44,284.

We now come to the Canoongoe's and Peshkar's "douls," which by themselves are not to be relied on, but are useful when an average "jumma" is to be struck out of the results of these and several other estimates. Not unfrequently I have found the Peshkar's estimate very near the mark. To check these official calculations, "douls," or estimates, have been taken from the most respectable zemindars in the Pergunnah, on the principle that, although zemindars never fairly assess themselves, they do not object to assessing their neighbours (vide Statement, and paragraph 53, "Directions to Settlement Officers"). As a further aid towards arriving at the solution of that most difficult of all revenue problems, the approximate rental of an estate (vide paragraphs 50, 51, "Directions to Settlement Officers," being exactly apposite to this district, where at least one-half, if not more, of the rents are received in kind), I have collected the rent and revenue rates of Saharunpore and Boolundshuhur, compared them with the dry and well irrigation rent-rates of Mr. Thornton; and, lastly, have subjected to the test of actual "kunkoots" one pucka beegah of every class of soil, in every class of estate. both in the Rubbee harvest of 1269 Fuslee, and the Khureef harvest of 1270 Fuslee; the purtals being carried out at different points of the district at the same time. I have, after careful local enquiry, classified villages which appeared similar in most respects, and then, with a pergunnah map before me, showing the various rates of the old jumma on the malgoozaree and cultivated areas, I have increased, upheld, or diminished the former jummas, as the case might require,—see general remarks in Statement No. II.

Extract from Mr. E. Thornton's Settlement Report.

5. Paragraph 24 of Mr. E. Thornton's Report on the Settlement of Mozuffernugger, 1841:—"There is another point to be ascertained,—viz., the extent

"to which irrigation can and will be increased, especially with reference to the proposed canal from the Ganges. It seems impossible to lay down any complete rule for the formation of a permanent assessment on the eve, as I trust we are, of a measure which will produce so immense a change in the condition of a sandy and totally unirrigated tract." Whilst assessing any estate, I have never lost sight of the great increase which may reasonably be expected to those mouzahs where the canal has recently spread its fertilizing waters over what is exhibited by their past state. It is quite possible that in some instances I might have raised the jummas of those villages where the water has been used for some time, higher than I have done; but I preferred making a gradual increase, as laid down in paragraph 66, Directions to Settlement Officers, and I gave due consideration to the fact that canal water is at times precarious, not sufficient to supply the remote rajbuhas, while those near the feeders are always supplied. I have had many complaints about the uncertainty in the supply of canal water, often just at the critical period when the cane crops threaten to dry

The Canal Officers have had their attention directed to these grievances.

up, unless moisture is given to their roots. On enquiry at Roorkee, I ascertained these complaints to be well founded, and, indeed, I have myself witnessed

cases of injury from the above cause. This is why the zemindars value their wells, for there they can command the supply, whereas the Chuprassees and Moonshees are very much the masters of canal water. I also bore in mind that the Canal authorities were raising their water-rates to 13 annas on every "kutcha" beegah, and to something above one rupee for sugar-cane fields, or more than Rs. 3 per "pucka" beegah. We were thus pulling at both ends, and I think erroneously: either one or the other Department should have decided on the increased revenue that ought to be

This has since been settled at the Canal Conference.

demanded; in fact, I am of opinion that a radical change is called for in the arrangements of the Canal Department. There are two alternatives: first, to make

assessments in a lump with the Lumberdars, and allow them to divide the water among their tenants, thereby effecting a saving in the whole establishment of Ameens and a greater part of the Chuprassees. The cultivators must, of course, be protected against oppression, such as malicious stoppage of the water-supply; a summary remedy to be applied to such cases, as is done in cases of exacting land-rent. Second, to make a permanent water-rate, taking the results of our measurements as the basis. The present canal arrangements are very defective, and the cause of much trouble and annoyance to the agricultural classes. The subject is, I am aware, a very difficult one; but something should be done to check the exactions of the native subordinates, especially the Moonshees and Overseers. Since the above was written, the question, I am glad to see, has been taken in hand and disposed of,—see correspondence.

6. I wish here to state some of the objections brought against the canal water. It is said that, after a few years of irrigation from the canal, the land becomes so impoverished that its yield is not more than one-half what it ought to be. At first the zemindars are only too glad to get the water, and by irrigating highly they draw from the land crop after crop, without returning any equivalent, till at last the land becomes quite sick, and refuses to grow any more. This, I think, is an exaggerated account, put forward in order to prevent the Settlement Officer laying too high a value on canal irrigation. Zemindars flood their lands where the level is below the canal; but where it is higher, and they have to expend labour in raising the water, there deterioration does not occur, and crops are luxuriant, showing clearly that injudicious and excessive irrigation is the cause of the mischief, and not any injurious

properties the water may possess. A well-revised rate in "tor" and "dal" will check this; at the same time, it cannot be ignored that in many places the zemindars are taking more from the land than is prudent; much more exhaustion goes on than the land can bear in the long run, and the effect of this will be seen hereafter in the diminishing value of the crops. The zemindars have yet to learn that the land requires rest, and stimulation by the aid of manure; but as long as the little manure produced on their estates is burnt as fuel, I am at a loss to see how this deterioration is to be remedied. A good English farmer would tell them that to increase the supply of manure they must keep more live stock, and relieve the land by a better system of rotation of crops. Where villages near the Bhoor and sandy tracts lie below the level of the canal, the land, owing to percolation, and the water forcing its way up, becomes spongy, and covered with a saline substance called "reh," which effectually destroys its productive powers. Drainage is the only thing to check this, and even then it is very doubtful, as Lieutenant-Colonel Turnbull, Superintendent-General of Canal Irrigation, shows to be the case in his own private garden at Roorkee, where a few years

See my report on villages injuriously affected by Eastern Jumna Canal.

back the finest garden crops were produced, and now, notwithstanding draining, nothing thrives. Fortunately these drawbacks are as nothing, com-

pared to the benefits of the canal.

- There are other important elements for the consideration of the Settlement Officer, such as the class of cultivators, deterioration of estates from years of distress, a multiplicity of needy shareholders, &c. Where the proprietors in a co-parcenary estate are very numerous and needy, it would not be prudent, for many reasons, to tax to the same amount as where there is a single and wealthy proprietor, although the land in both cases is justly considered hypothecated to the payment of its proportionate amount of rent or revenue. What I mean by lightly laying on the tax where I find a large number of needy shareholders is this: where an increase is called for on the past jumma, I am disinclined to raise it to the full amount in Bhyachara estates occupied by a numerous brotherhood, the reasons are obvious, and yet not to make too notable a distinction (vide paragraph 66, "Directions to Settlement Officers"). The assessment has unfortunately been preceded by several bad years, including those of mutiny and famine; the wealthy capitalists have alone been able to hold out, but the Bhyachara villages have been greatly depressed. Owing to these untoward circumstances, the zemindars of unirrigated lands have suffered immensely, while those proprietors whose estates border on the canal have been making, during the last year of distress, when grain was selling at 8 seers the rupee, large but temporary All these and other inequalities of position have received their fair amount of consideration, and a jumma has been fixed which I believe in most instances corresponds to the present and future capabilities of the soil; at least, I have spared no pains in fixing equitable jummas. Where canal irrigation has been anticipated in unirrigated estates, a clause has been introduced fixing the period of settlement at 20 years, as prescribed by Government orders. Mozuffernugger is an exception; to it the privilege of a 30 years' settlement for the whole of the estate, irrigated and unirrigated, has been extended, upon my application: the same has been granted in Thannah Bhowun. I am opposed to two periods running at the same time and in the same pergunnah. The matter is of very little consequence now that we are on the eve of a permanent settlement, previous to which the whole of the settlements have to come under revision.
- 8. When, by the outlay of capital, a proprietor, or an industrious body of proprietors, such as Jâts, have unusually improved their estates, due allowance has been made for the interest on this capital,—vide paragraph 65, "Directions to Settlement Officers," and Section 37, Saharunpore Circular. The outlay of capital is to be detected in digging wells, reservoirs, locating cultivators, high manuring, and a greater proportion of the valuable crops. It would be clearly unjust to raise the revenue to a high pitch because one zemindar had increased his "meesun" to twice the amount of his

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neighbour. "Meesum" I take to mean the most highly manured and irrigated lands in the estate, generally near the site of the village. Mr. E. Thornton in his report mentions that, after sundry calculations, he determined what should be the average quantity of " meesun" under ordinary circumstances, and that when this was exceeded he rated the difference as "rouslee:" 161 per cent. was considered the proper quantity of meesun; but where it fell short of this, and years must elapse, owing to peculiar circumstances, before the average could be attained, then a further deduction was allowed. Mr. Thornton in another place says 20 per cent. would in fact be a small proportion of meesun to expect by good cultivation; but then he found so much depression in parts, and such great variations, that it was very difficult to fix a standard,—vide paragraph 10 of his report. In some mouzahs, the meesun was as high as 82 per cent., whereas on an average it was below 20 per cent, and frequently very much lower still,—vide Appendix No. I. In a country like this, where agricultural science is unknown, and where the supply of manure is so limited, I preferred taking each village separately, and not binding myself down implicitly to arithmetical averages as to what should be, instead of as to what is, the average condition of each estate. "The mere circumstance of a per-"gunnah being settled at a uniform average is no criterion of a just settlement; "the application of the average is most useful as a check, and greater confidence "may be reposed in a settlement where the averages, if they are various, can be " accounted for, than in one where a uniform rate prevails throughout every mehal" (Report on the District of Meerut, No. 140, dated 31st August, 1836; H. M. Elliot). As I have said before, it has always been my endeavour to ascertain what may reasonably be expected to be the condition of estates over a series of years, assigning to Government, under the terms of the Saharunpore Circular, its fair share of increasing prosperity and high prices, at the same time not over-taxing capital, or industrious classes, merely because they are such, nor sparing the indolent through fear of their depraved habits.

9. The tenure most prevalent in this pergunnah is imperfect putteedaree. Where I find the shares are known as so many portions of a beegah, in the form of biswahs, biswansees, &c., and recorded as such in the "khewut," the united responsibility of the whole still existing, I call such estates imperfect putteedaree. Although the responsibility remains intact, the accounts of the puttees are really kept separate, and as soon as the "shamilat" becomes divided we get perfect putteedaree. Bye and bye, as generations roll on, the land becomes minutely sub-divided; it loses the character of puttees, each man's holding becomes the limit of his interest, and we get "Bhyachara." This is the necessary gradation of the village tenures in the North-

* In imperfect putteedaree estates, and putteedaree also.

West. Sometimes the shares* correspond to the sub-division of a rupee or number of ploughs, but generally the integral whole is a beegah.

There are a few pure zemindaree villages, owned by the Nawab of Kurnal and some wealthy mahajuns of Mozuffernugger; but these are very few, as will be seen by the list. The Shurh Nukdee, or estates in which the zemindars' profits have been limited to 18 per cent. over and above the jumma, require more notice. This tenure appears anomalous. It is true, a clause (subsequently superseded) was introduced at the last settlement, legalizing the sale of the hereditary rights of the cultivators in case of default; still the real responsibility attaching to the payment of the revenue rested with the zemindars, who were restricted by the Settlement Officer to the enjoyment of 18 per cent. only over the jumma. The consequence of this has been that, in some cases, where the cultivators were a powerful body, as in Luchaira, the zemindars have not been able to set foot in the villages, the entire management being in the hands of the cultivators, who have dug wells, planted groves, and, in fact, for the last 20 years have exercised all the functions of proprietors. It is now difficult to see how the zemindars can acquire possession without disturbing the constitution of the village; at the same time, as the estate has increased in prosperity, the zemindars should be

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allowed something more than 18 per cent. In other cases, such as "Mustafabad," the zemindar, a wealthy bunnea, has taken the law into his own hands, and made the ryots by some means or other resign their privileges, -bullying those who would not yield to his demands, till at last he has reduced his tenants to obedience, and made them tenants-at-will. He has thus acquired a large quantity of seer land, said to be 500 kham beegahs, which he keeps in his own hands. It was very desirable that these "Shurh Nukdee" estates should, during the present revision of the land revenue, be settled on some intelligible basis. I referred the subject to the Board of Revenue, and, with the sanction of Government, the Board has abolished entirely the Shurh Nukdee settlement, and reinstated the zemindars in their just privileges. If we had ignored the condition of a percentage, and allowed the zemindar to settle his rates of rent by suits under Act X., 1859, a great amount of litigation would have arisen. This has all been avoided, and the rents of these assamees have been converted into fixed money rates prevailing in the neighbourhood, -vide annexure. The interference of the Settlement Officer was urgently required, because the disorder was occasioned by the acts of the officers of the old assessment.

10. Mr. Keene has already in his report detailed fully the character of the prevailing rents; all that I wish to add is, that every opportunity has been taken to induce the people to convert their nijkaree, or rents in kind, into money rents. Nijkaree rents are a fruitful source of quarrel. At this time, whilst I am writing (May 2nd, 1862), Mr. Lane, Deputy Collector, reports that, in a large village in Pergunnah Poor, the crops, though ripe and ready days ago, are still allowed to stand, because the zemindars and ryots cannot come to an understanding about their division. Frequently petitions are given in by the assamees that the zemindar will not be present at the time the kunkoot (or valuation) and buttai (or division of crop) is being made; and so, vice versa, the zemindars complain against the ryots. By the Sudder Board's Circular No. 45, dated 21st January, 1861, to Commissioner of Meerut, we write on such petitions that whoever fails to be present on these occasions subjects himself to the penalty of receiving a decree for that amount only which is stated by the opposite party to be the share. The assamees also raise objections, not to the amount of crop taken as the zemindars' share, and entered in the Putwarees' papers, but to the rough valuations (kunkoot) made by appraisers in the bidding of the zemindars; assessing a field, for instance, at ten, where it ought to be eight, maunds, and to the extra little cesses laid on at the time of the valuations. No sooner were the jummas declared in Mozuffernugger, than large bodies of the cultivators (e. g., Surwut, &c.) came forward and petitioned to have their rents fixed in money; but the zemindars are unwilling to deviate from the past custom, deeming that fixed rents cripple their authority and render the ryots independent. There is no doubt that collecting rents in kind is a barbarous mode, suitable only to a new country, where the land has just been reclaimed from the wilderness, or where money and markets are scarce, but should be abandoned in this district, where these conditions do not apply, and where, as before mentioned, the vast majority of cultivators are desirous of obtaining a fixed money I am of opinion that justice may be done to both landlord and tenants by giving a money rent calculated upon a valuation of the average amount of produce received by the zemindar in kind during the past 10 years, and the average value of similar lands in the vicinity. I consider money rents on the cultivation of tenants possessing rights of occupancy, variable only on good proof, as required by Act X., 1859, quite fair to the zemindar, and the only safe remedy against agrarian disputes. I have made a separate report upon this in an appeal case before the Commissioner, vide my letter No. 254, dated 14th August, 1862. Since the above was written, the Board, on my application, has invested Settlement Officers with powers to revise rents under Regulation VII., 1822; and to legalize these proceedings, a fresh enactment, Act XIV., 1863, was promulgated.

11. Admitting that the acceptance of the jumma is not a sure sign of its fairness, for it often happens, as is said in the "Directions to Settlement Officers," para-

graph 63, that the people sign their engagements out of fear of alienation of their property; still I think it worthy of mention in this report that the zemindars of this pergunnah willingly took up their jummas; indeed, I do not know how it could be otherwise, seeing the highest rate on the malgoozaree area is to be found in Mouzah Bujhairee, being per acre Rs. 3-3-3\frac{1}{2} on cultivation, and Rs. 3-1-3 on malgoozaree area.

* Including life masses.

The whole increase * on the past jumma of this pergunnah amounts to Rs. 12,167-6-11, which gives the following revenue rates on the whole area:—

On cultivated area per acre ... 1 10 03
On malgoozaree ditto ... 1 5 9

I have every reason to believe that this jumma will be collected with facility, and that, with the aid of an ample supply of canal water, a handsome marginal profit will be left to the landed proprietors. I hope some day to see this jumma confirmed in perpetuity. Since this was penned, the despatch from the Home Government has been received, which leaves but little doubt that this revision of the land revenue, North-Western Provinces, will be permanent. A boon of inestimable value will thus be conferred on the landholders, the chief tax-paying class of this country, who have hitherto borne the greater part of the burdens of the State.

Government will certainly not be the sufferer by granting this concession. The whole pergunnah has been brought under cultivation, the culturable area consisting mainly of lands allowed to lie fallow in order to gain strength. By fixing unalterably the jumma, the zemindars will strive more and more to increase the productive powers of their estates, the value of landed property will rise, and in the train of increased production will of course follow contentment and augmented wealth, with a greater consumption of taxable articles other than land produce.

S. N. MARTIN, 1862. Collector.

Classification of Mouzaks in Pergunnah Mozuffernugger.

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Class I., or the most fertile irrigated villages, with the largest proportion of meesun lands.	Class II., or irrigated villages, but not so prosperous as Class No. I.	Class IIL, or unirrigated villages, more or less indifferent.
(1) Almaspoor, (2) Bujhairee, (3) Budhairee, (4) Bunnee Bagoo-walee, (5) Beharee, (6) Puchainda Kulan, (7) Dutteana, (8) Rai, (9) Surwut, (10) Siasona, (11) Kookura, (12) Mukiyalee, (13) Shahaboodeenpoor, (14) Moostufabad, (15) Maigakhairee, (16) Yoosoofpoor, (17) Khairee, (18) Nuseerpoor, (19) Luchaira, (20) Mirzapoor, (21) Rampoor.	(I to 5) Qusbah Mozuffernugger, five puttees, (6) Chandpoor, (7) Belaspoor, (8) Bijoopoora, (9) Puchainda Khoord, (10) Bumnnhairee, (11) Maidpoor, (12) Shairpoor, (13) Soojroo, (14) Mimlans, (15) Shairnuggur, (16) Rohana Khoord, (17) Rohana Kulan, (18) Beebeepoor.	(3) Khampoor, (4) Daisutpoor, (5) Sadhpoor, (6) Muleera, (7) Salampoor, (8) Bookunpoor, (9) Khanjehanpoor, (10) Mundeera, (11) Meeranpoor, (12) Seemlee, (13) Nurrah, (14) Selajoodee, (15) Narana, (16) Hoomaicenpoor, (17) Bheekee, (18) Dhundaira, (19) Sukraira, (20) Jhutmujhaira, (21) Tiguree, (22)
Total, 21 Villages.  1 Puttee Beharee.  22 —	Total 14 Villages  4 Puttees Mozuffer- nugger. 18	Kumbhaira. Total, 22 Villages.
	Grand Total, 62 Mehals.	
Rs. As. P. Revenue rate per acre malgoozaree 1 13 5 1 Ditto cultivated 2 0 7 1	Ra. Aa. P. Revenue rate per acre malgoozaree 1 5 7 Ditto cultivated 1 9 11	Revenue rate per acre malgoozaree 0 14 101 Ditto cultivated 1 3 81

Mr. Thornton, when reviewing the general features of the whole district, says in paragraph 26 of his very useful report that "there are about thirty mouzahs of peculiar "excellence in the zillah, their superiority being attributable to a dip in the general

"level of the country, therefore retaining the waters that fall on the surface." Of these he gives a prominent place to the Puchainda Kulan circle, in the Mozuffernugger Pergunnah. He refers more particularly to Puchaind, Moostufabad, and such like; but, taken as a whole, Pergunnah Mozuffernugger cannot be called a rich pergunnah, like Khatowlee. The Syud proprietors are miserably poor,—in fact, they are all sold up, and glad to take service wherever they can get it.

S. N. MARTIN, Collector.

Aurungabad: Bhyachara village, Pergunnah Thannah Bhowun, Zillah Mozuffernugger.

Present jumma Rs. 1,464.

Held and cultivated by Jats and Rors. Canal-irrigated. Average irrigation canal returns of 1839-40, 1840-41, give 400 acres; raming rental estimates previous assessment. present measurements, 500. Hence no very material increase of irrigation since last settlement. Ten wells

work. Prosperous, and pays up well. Soil good, but suffers from "reh," a salin substance. The best crops grow well. Sewace items insignificant. Market 4 miles off, at Thannah Bhowun. Proprietary mutations small. No balances.

Area, former.	Waste.	Maåfee.	Culturable.	Judeed.	Cultivated.	Total.	M. R.	C. R.
982	* 146	5	* 184	•••	647	831	1 12 24	2 3 11
1,004	+ 174	•••	<b>*</b> 87	32	711	830		

^{*} The excess of waste is owing to decrease of culturable, "reh" having affected the land.

	Irrigated.	Unirrigated.	Total.
Meesun .	. 129	•••	129
Roslee .	380	18	393
Dakur	. 189	•••	189
Total .	. *698	13	711

^{*} Canal records show an average irrigation during 1858-59-60 of 367 acres.

J. Misi.

^{1.} The first rental estimate to be ascertained is that afforded by the Putwarees' "nikassees." It is ascertained by the following process:—

	·	
	6 5 13 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	
Value.	Ra. Aa. 608 1 488 13 18 2 97 0 97 0 25 5 5 1 11,237 6	, <b>:</b>
Amount of crop (land-	Md. Srs. 194 20 1,466 20 63 20 291 0 57 0	:
1265 Fusice. Amount of land.	Bgha. Bia. 857 16 22 0 46 3 23 0 1,018 7	:
Value.	R6. A8. P. E 708 4 0 708 5 6 36 4 0 256 2 6 1,227 0 0 1	:
Amount of crop (land- lord's share).	Md. Sra. 1,417 20 586 20 145 20 768 20 7 0 2,925 0	:
to tanomA .select Fuelect of	Bghs. Bis. 458 17 42 18 1145 6 23 0	:
.Value.	Ra. As. P. 686 10 9 310 6 0 20 79 0 0 377 6 0 1,475 13 9	:
Amount of crop (land- lord's share).	Md. Srs.  1,545 0 854 10 71 20 276 20 843 20 5 0 3,095 30	:
1263 Fuelee. Amount of another.	Bgha, Bia, 401 14 220 17 20 8 67 19 188 4 2 18 892 0	:
Value.	Ra. As. P. 599 0 0 122 8 0 121 8 0 121 8 0 32 0 0 2 8 0 1,350 12 0	:
-bnal) qoro to tanna. lord's s'brol	Md. Srs. 1,347 30 428 30 15 0 334 0 64 0 6 0 3,134 0	:
1262 Fuslee. Amount of land.	Bgha. Bia. 385 7 16 19 3 10 110 11 240-14 38 13 2 19 3 18	:
· Value.	Ra. Aa. P. 797 15 0 122 4 0 109 9 0 50 8 0 514 0 0 2 10 6 2 10 6 7 13 9 7 13 9 7 13 9 1 59 15 0	6,881 0 0
erada) qoro to simomA.	Md. Srs. These are huccha mds.; two go to the pucca maund. 1,356 20. 244 20. 244 20. 61 0 61 0 01,028 0 1,028 0 1,028 0 1,028 0 2,991 0	:
1261 Fuelee. Amount of	#380 6 #380 6 51 0 82 4 20 4 20 4 21 1 1 1 0 7 1 1 5 5 6 5 6 833 9	4,397 15
Name of crop.	Wheat Gram Barley Rice (Shalee) Chhora (fine rice), Joar Mussoor Mote	GRAND TOTAL

Or 4,397 beegahs, 15 biswahs,=2,226 acres, gives Ra. 6,881.

The measurement papers of 1268 show an area of 482 acres grown with "Nijkaree" crops. The culturable area is under the average of past years, which is 80 acres. The "Judeed" or recently thrown Hence 6,881 ÷ 2,226=Re 3 1 5=rent-rate per acre, and Re 1 8 8}=revenue-rate per acre.

out of cultivation, is also under the average. Hence no acres from either column are added to the 482 acres recorded as cultivated. But the rentrate of Rs. 3-1-5 applied to 482 acres-a rental of

* 380 Beegahs. The total area in beegahs is subsequently converted into acres.

Rs. 1,490, or (barring extra cesses) a jumma of Rs 745.

Average rent-rate per acre of subtee crops for 5 years.

Sugar-cane, per acre
 = 8 14 
$$2\frac{1}{2}$$

 Mukkee, ditto
 = 2 9  $5\frac{3}{4}$ 

 Torya, ditto
 = 5 14  $9\frac{3}{4}$ 

 Baree, ditto
 = 5 14  $9\frac{3}{4}$ 

 Churree, ditto
 = 2 3  $6\frac{1}{2}$ 

 Mundwa, Saffron,
 ditto
 = 2 15 5

In the measurement papers of 1268 are recorded—

54 acres of Sugar-cane 479 15 0 according to average rate above noted. Mukkee ditto. 46 19 Baree 112 ditto. Churree 171 ditto. 77 7 ditto. 15 Mundwa 44 8 14 ditto. 3 Saffron 88 14 ditto. 15 Toriya =1,0250 229 acres Total = 1,490+1,025 (zubtee rental) Rs. 2,515=(-cesses)Nijkaree rental 1,257-8-0 = jumma.

- 2. The jumma according to Mr. Thornton's appraisement is similarly procured, excepting only that where the heading "Amount of crop" occurs in the five years' nikasees, the figure inserted is that which, according to Thornton's table, should have been produced, and not that which the "nikasee" represents as having been produced.
- 3. The "Produce" estimate, as far as the ascertainment of the nijkaree total, is precisely similar to the method detailed under No. 1, and both are derived from the Putwarees' nikasees. The difference occurs in computing the zubtee articles, which is done as follows:—

126	<b>51.</b>	12	62.	15	263.
Amount of land.	Value of crop at rent-rates.	Amount of land.	Value.	Land.	Value.
Bghs. Bis. Bis. 354 18 0	Rs. As. P. 613 8 9	Bgs. Bis. Bis.	Rs. As. P. 648 8 3	Bghs. Bis. Bis. 257 14 0	Rs. As. P. 567 7 6

1	264.	1	265.
Land.	Value.	Land.	Value.
Bghs. Bs. Bis. 297 5 0	Rs. As. P. 284 9 3	Bghs, Bis. Bis. 103 16 0	Rs. As. P. 271 11 6

Grand Total = beegahs  $1,455\cdot10 = Rs. 2,385-13-3$ .

Beegahs  $1,455\cdot10+4,397\cdot15$  (nijkaree) =  $5,853\cdot5=2,963$  acres.

Rs. 2,385-13-3+6,881 (nijkaree) = 9,266-13-3  $\therefore$  ( $2,963 \div 9,266-13-3$ ) =  $32.0\frac{1}{2}$  per acre.

 $(711 \text{ acres} \times 3-2-0\frac{1}{2}) = 2,224 = \text{Jumma Rs. } 1,112.$ 

The circle rent-rates supply a jumma as follows. The rates are these:

Rs. As. P.

Meesun irrigation=9 7 4 (rent-rate).

Roslee irrigation=3 13 
$$5\frac{1}{2}$$
 ( ,, ).

Roslee unirrigated=2 9  $8\frac{1}{2}$  ( ,, ).

Dakur irrigation=3 14  $2\frac{1}{4}$  ( ,, ).

These rates are applied to the amount of each kind of soil as represented for the particular village, and as regards "meesun," according to the proportion borne by "meesun" to the cultivation of the particular circle. In Aurungabad, the proportions are so nearly regular that the actual figures have been preserved. The result is as follows :

Rs. As. P.

Meesun irrigation = 129 acres = 1,220 2 0

Roslee irrigation = 380 , =1,459 10 5

Roslee unirrigated = 13 , = 33 12 2

Dakur irrigation = 189 , = 734 9 5

Total = 711 , =3,448 4 0

$$\frac{1}{3}$$
 = 1,724 2 0

- The "average cultivated rate" of the circle gives 1,939.
- Estimate.—This is yielded by applying the old malgoozaree revenue-rate to the present area=1,464, which at two-third assets represents a jummabundee of Rs. 2,196 = jumma at half assets of 1,098.
- This is yielded by applying the old rate on cultivation to the actual cultivation as recorded by the measurements, plus any excess over the 5 years' average of culturable and judeed jumma=1,596, or a jummabundee at two-thirds of 2,394 = jumma at half assets of 1,197.

The Canoongoe's "doul," or estimate, gives Rs. 2,089,—the standard average (Thornton's appraisement) yielding only Rs. 1,280-3-11. Although both Canoongoe's doul and average circle cultivated rates point higher, I think it safer to retain the jumma given by the circle rates, plus Rs. 24 yielded by the sewaiee items (mangoe groves).

The average cultivated rate points much higher, but I am not prepared to make so material an increase, believing, on the whole, that the circumstances of the village do not admit of it.

> S. N. MARTIN, Offg. Collector.

Note.—In justice to Mr. Colvin, I NOTE.—In JUSTICE to Mr. Colvin, I beg to state these estimates were mostly of his suggestion. I found them in force when I took charge of the district; they appear to me to be reliable, and were accordingly adopted.

P. S.—In addition to these are the estimates formed by the application of summary suit rent-rates, of "douls" or proposed assessments by pergunnah officers and respectable land-owners, and any rent-rates ascertained by personal enquiries from tenants, from zemindars, and the Putwarees. No single estimate can be a safe

guide; the only way is to take an average of several rentals, and, modified by local knowledge, fix a moderate jumma suitable to the circumstances of each estate.

Statement showing amount of profits in the Pergunnah of Mozuffernugger attributable to the Ganges Canal.

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Pergunnah.	Number of villages irrigated by canal.	Area in acres under canal irrigation.	Former aggregate jumma of these vil- lages.	New jumma.	Increase.	Portion of increase attri- butable exclusively to influence of canal.		Former jumms.	New jumma.	Porti n of decrease attributable to the influence of canal.	Net gain to the revenue of the pergunnah from the influence of the canal.
	-		Re As. P.	Re	Re As. P.				_		Re
ernug-						First estimate, revised under orders of Senior Member, Board of Re- venue.					
Mozuffernug-	46	18,956	45,998 1 5	55,100		First estimate  14. 8,830. Second revised estimate under orders.			•••		16,288

Note.—The reason why columns 6 and 7 do not agree is this: Formerly settlements were based on two-thirds of the rental; under the present system, Government claims one-half only: therefore under ordinary circumstances, if the pergunnah had remained unirrigated, if cultivation had not much increased, and prices had remained nearly stationary, the total jumma of the new settlement would obviously have been much less than the demand of the old settlement; whereas, owing to the introduction of the canal, not only has a fall in the revenue at half assets been avoided, but a considerable increase has been obtained. Any well irrigation and increase in the cultivation has been allowed for before computing the profits of the canal. All that area which is now meesun, and which but for the canal would have been unirrigated roslee, the difference between the produce of the latter and the former has been credited to the canal. The entry in column 5 includes the jumma assessed on life-maifees which will fall in presently.

S. N. MARTIN, Collector.

A NOTE about sugar mills may not be altogether uninstructive.

The sugar mills in this district are made of seesum and sal wood; they are worked day and night by ten pairs of bullocks, and are said to cost from Rs. 25 to 30. Generally several cultivators join together in the purchase of a sugar mill. The agreement among themselves is for one partner to work the mill a whole day and night: as much juice as he can express within that time is his property. Then the next partner comes on; and so they work on the mill in rotation as long as there is any cane left. In this district, the mills commence work in December, and finish in the beginning of February. In one day and a night three or three and a half vessels of juice are expressed, each vessel containing ten to twelve gallons. From the raw juice the following articles are produced:—

(Hindee) "Rab," or treacle.

( ,, ) "Goor," a rough, coarse sugar.

,, ) "Shukkur," refined sugar, which sells for about 2½ seers per rupee.

( ,, ) "Sheera," or cane juice, which is frequently sold in its raw state.

In some parts of the district, it is customary for one partner to express a certain number of vessels of juice, and then to give it up to the next partner.

The produce of a pucka beegah of land of course varies with the quality of the soil. From enquiries I have made throughout the district, the value per pucka beegah is—

Best quality ... Rs. 50
Second ditto ... , 35 to 40
Third ditto ... ,, 25 to 30
Including tenant's wages of labor, profits of capital, wear and tear, &c.

The expenses connected with ploughing, planting, digging, in order to loosen the earth after the seed has germinated, and cutting, is considerable; it may be reckoned at 30 per cent., while the rent will form another 30 per cent., leaving to the cultivator somewhere about 40 per cent. to cover risks, wear and tear, profits, &c. In the Khurreef 1270 Fuslee, the sugar-cane sprouted at the top, and is said to have been very poor in consequence.

S. N. MARTIN, Collector.

The expenses include the labour of cutting, canal waterrate, and remissions for errors in the estimates of appraisers. Possibly these expenses have been over rated in order to show diminished profits, but I have not thought it right to alter this column 12 is that of fair seasons. In Elliot's Report on the District of Meerst, the remissions on account of the errors of appraisers are called abood achood, or damage to crops, which is left to the discrept of the appraisers are called or bood achood, or damage to crops, which is left to the discrept by 184, No. 140, dated 31st August, 1836. Remarks. 5 ä * 7 Rent-rate per sere. 2 As P. Re. ō 90 2 95 **æ**) **64** Ξ 2 2 b = 1share in money. Ξ ÷ + stabulmes to surfat **±** •• 16 00 **±** * **5**6 33 ಭ 88 8 88 8 8 8 88 Rate per rupee, œ į 뎍 : į : 0 0 99 Þ 99 Ħ 0 20 24 Ü 8 <u>01</u> 04 o 엃뚔 გ 32 99 38 8 Share of Malgoosar. Ξ œ • 9= 2 91 쫧 01 Ξ ä 20 2 0 80 ö ă ರ 3 22 œ 2 2 7 88 9 8 00 9 8 5 8 ġ Share of Byot. ä ø 10 10 29 23 ± - 0 13 8 2 으 ರ 4 0 17 40 4 20 8 2 으꿃 8 2 33 80 oi. QC) **К**хрепьев. 90 43 a 04 * φ Ø4 Ä ð Ö Ö ပ 00 = 80 න් 잃响 0 8 2 10 0 18 35 8 8 R 10 Total produce. 6 9 × 9 19 22 22 8 69 = 6 9 20 \$ 3 : : 1 : i . i : Wheat Wheat Ditto Wheat Ditto ę. : Ditto : Ditto Ditto Kind of crop. ŧ : ; : ψ Poler : : : 1 : LAND. 8 01 : į HÅ. Roods. QUANTITY 99 Q1 Acres : ፥ : : ÷ ŧ :: Ė : : : ÷ : : ; Total of whole irriga-ted Meesun land ... : : : : Total of whole irrigated Roslee land ... Qusba Mozuffer. Total Total Kunkoot Total Kunkoot Mozuffernugger Village. Moostuffsbad Yusufpoor Moostuffshad Rampoor Sulaimpoor Shernuggur Budheree 49 Tueufpoor nugger. But But. 3 Kind of appraisement. 6 ö Kunkook Kunkoot Hara tace. Hars. irri Ė E : Kind of soil. Mecsun gated. ..; Routes grated. Ditto Ditto 1

Kunkoot Returns, Pergunnah Mozufernugger, in 1862.

18

Remarks. 15. A တ 2 Rent-rate per acre. 14. 10 9 4 Ŗ. AB. တ Ξ Value of Nemindar's share in money. 13 11 20 108 엃 62 ರ တ် 8 88 8 . 15 Rate per rupee. : : Kunkoot Returns, Pergunnah Mozuffernugger, in 1862.—(Concluded.) 8 ೮ Ξ 8 σċ 8 윊 8 8 Ξ Share of Malgoozar. 88 29 Ħ 8 0 8 **∞** ŭ Ø 0 2 8 2 **80298** σά \$ 30. Share of Ryot. 118 Ħ 8 63 0 C. 7 3 35 œ 27 2000 8 န္တ o; Expenses. 22 88 Ä 2 Ö ರ 2 000800 σż 2 స్తి చ ಜ ಜ Total produce. **8** 61 8 6 23 6 8 171 8 113 227 Barley and Muttur. Whest ... Wheat ...
Ditto ...
Ditto ...
Muttur ...
Ditto ... : Wheat Wheat . Kind of crop. : : : : : ₩ ଷ 56 8 Poles. 6 LAND. QUANTITY OF • : Roods. ō, 14 ~ 01 14 Acres. Total of whole irrigated Roslee land... : : ::::: Total of whole Bara-nee land ... Total Hara Mozuffernugger Rampoor Salaimpoor Kookra Almaspoor Shernuggur Total Kunkoot Village. Ditto Khanjehanpore Moostuffabad Surwut Surwut Kind of appraisement. Ditto Kunkoot : œ Hara iri Dakur irrigated. Roslee Baranee, By Putwaree's Chitta. By Putwaree's Chitta. Kind of soil. Ditto

Dakur Baranee,	Kunkoot	:	Dakur Baranee, Kunkoot   Khanjehanpoor	:	1	:	Gram	8 8 0		0 10 0 1 21 8	1 13 8	0 33 12	1 10 3	6 9	
Bhoora do.	Hara	:	Shernuggur Budheree	<b>-</b> ::	; C4	4.84	Wheat Ditto	8 0 0 6 10 0	0 20	0 4 39 8 0 3 25 0	8 20 8 0 2 0 0	0 00 0	3 5 6 2 10 6		
			Total Bhoora Barance land	~~ 1	GN,	•	:	14 10 0	1 8	8 24 8	4 20 8	:	0 9	8 14 5	
					Chuk	r average	rent-rates of	former se	ttlement pe	Chuk average rent-rates of former settlement per acre, as follows :	llows :—				
Rent-rates	(1st)		Meesun irrigated.	Meesun unirrigated.	unirri-	Roslee i	Roslee irrigated.	Roslee ur	Roslee unirrigated.	Dakur i	Dakur irrigated.	Dakur Baranee.	Bhoor irrigated.	Bhoor Baranee.	
			4 9 64	3 15 10}	104	8 1	3 7	61	4 104	61	<b>1</b> 66	2 1 6	1 7 11	1 7 9	
Ditto	(2mg)	_	10 14 84	vorage of	rent-rate	s per acre	got by Kun 5 12 72	koot and a	ctual out-tr 3 62	irns, Rubee	Average of rent-rates per acre got by Kunkoot and actual out-turns, Rubee 1269 Fuslee :—  6 12 74 8 64 8 64 8 7		:	8 4 5	
For the above classes of soil, the Saharunpore rentrates are  Boolundshuhur rentrates are	ve classes of unpore rent .ur rent rates	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6 0 0 11 0 0 0 10 8 0 0 0 0 0 0 0 0 0 0 0	◀	o ::::		8 4888 8 0 4880 0 0000	2 Unirige 2 2 1	2 9 6 Unirrigated soils. 2 4 0 2 0 0 1 12 0		0	u 1-	64 4	O O 04	Average of the whole on malgocaree are 1 3 5 On cultivated 1 7 6 These are revenue rates of the Saharunpore Settlement.

Norm.—It will be observed that there is a grest difference between the rentrates of Nos. 1 and 2. The cause of this difference is that in No. 2 only one harvest has been taken into the estimate, and that consisting of valuable corn crops, whereas if the "Khurreef," with some of its poorercrops, such as churree, jowar, &c., had also come into the calculation, the average rent-rate would have been lower. Money, too, is more plentiful now than it was when Mr. Thornton made his estimates : produce that was selling at a maund per rupee now sells for less than 30 seers per rupee. However, it is satisfactory to think that the rates upon which I have based my calculations are, as compared with actual out turns, light. Far better that the rates of assessment should be moderate than high. The Khurreef harvest will be similarly tested. This pergunnah was settled before the Khurreef crop 1270 Fuslee was ripe.

S. N. MARTIN, Collector.

Bazaar prices of grain for the last fifteen years for the Town of Mozuffernugger.

Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name	H		$\overline{}$	EREEU;					Кнук		<u> </u>
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S. N. MARTIN, Collector.

Consus of Population, Mosuffernugger.

	Remarks.	
	Grand Total.	44,429 28,751 13,170 13,170 24,532 35,522 35,621 28,762 38,327 48,059 48,059 39,976 39,976
	Total.	25,531 17,608 2,965 13,608 20,623 115,623 116,523 117,091 117,091 117,091 117,091 117,091 117,091 117,091 117,091
Now ABRIOULTURISTS.	Females.	12,890 8,038 1,582 6,539 9,519 14,100 5,889 11,809 6,406 11,900 8,616 8,616 8,616
~	Malos.	15,641 9,626 3,423 8,159 13,026 16,431 10,641 11,684 11,684 11,684 11,684 11,044 10,045 10,045 10,045
	Total.	13,896 11,149 9,165 12,654 12,699 12,699 16,495 10,495 10,495 10,495 10,495 10,495 10,495 11,995 11,995 12,213 12,213 14,030
Аомсоплония.	Females.	4,173 4,763 5,820 5,820 5,829 9,171 6,964 4,196 6,196 7,256 18,193 7,256 18,193 7,256
	Maios.	1,726 6,386 6,386 7,5648 1,531 1,531 1,531 1,554 1,554 1,163 6,872 1,978 1,978
	Pah.	::::::::::::::::::::::::::::::::::::::
	Pergunsh.	Moruffernugger Pror Chupar Gordhunpoor Churthawul Bugra Shamlee Kyranah Bedowlee Thannah Bhowun Jhinjhana Borhana Shitarpoor Kandia Khatowlee Jowlee Janaut Bhoma Sambulhera Bhoma Sambulhera
	Mambers	

* There is a deficiency of females here. Among the Rajpoots, I believe, female infanticide still exists, but not an unit have observed in the castern districts of the North-Western Provinces. The Jate and well-to-do as an agricultural community, have a very discourse. A very districts to obtain their remedy abscord with other men, and then the Jate try to obtain their remedy abscord with other men, and the results of which will most in progress, the results of which will most in progress, the results of which will most in

Collector. 8. N. MARTIN,

# REPORT. PERGUNNAH CHURTHAWUL.

This pergunnah was assessed in November, 1862, after Pergunnah Jhinjhana, and the demand came into force from 1270 Fusice. I proceed to give a sketch of the pergunnah, and the results of the new settlement.

- Churthawul covers 92* square miles, and is bounded on the east by the Kalee Nudee, on the west by Thannah Bhowun, on the * 90.3 in Christian's Census, page 110. south by Bugra, and on the north by Rampore and Deoband, of the Saharunpore District. The Hindun runs from north to south through the western quarter. Between the Hindun and the Kalee Nudeo the land is high, but naturally fertile. Water is, as a rule, Description of pergunnah. Masonry wells are scarce, at a great depth. and kutcha wells are only dug at a great expense, lasting for two years, or so. Except in bad rain, year's cultivation is careful and abundant. The villages lie rather far apart, but are large and substantial. Tuggahs on the high land, and Rajpoots towards the Kalee Nudee and Hindun, are the chief castes. Churthawal itself is a small agricultural town, once the residence of an Amil, but now a mere overgrown village. On the west of the Hindun a rajbuha of the Eastern Jumna Canal runs from north to south, and the villages in its neighbourhood are as usual thriving and prosperous. One road runs from west to south-east, coming from Jellalabad and Thannah Bhowun, crossing the Hindun by an unbridged ford, and the Kalee Nudee by a masonry bridge, and so leading to the Mozuffernugger market. The Doab is particularly liable to malaria, and fever interferes severely with agricultural operations in September and October. The population is 297 to the square mile, as against 414 in Christian's Consus. The difference I attribute to the drought of 1860-61, which fell very heavily on a pergunnah so deficient in irrigation. The exodus from the Cis-Hindun villages was very general.
- 3. Mr. Thornton had made four circles, as marked in the accompanying map,

  for assessment. These I have maintained, adding one more. This other included the TransHindun villages, which resemble in soil and population the neighbouring villages of
  the Thannah Bhowun Pergunnah. I included them in the Kheaoree Circle.

The assessment was conducted on exactly the principles detailed in the Report

Deduced revenue rates of new settlement.

on the Thannah Bhowun Pergunnah. Mr. Thornton's rates for the four circles above mentioned
were reduced to half assets and maintained. They then stood as follows:—

				Meesun irrigated.			Meesun unirrigated.			Roslce irrigated.			Roslee unirrigated.			Dakur irrigated.			Dakur unirrigated.			Bhoor irrigated.			Bhoor unirrigated.	
Burkullee	•••		2	2	11	1	15	6	1	3	312	0	15	7	0	14	71	0	13	71	1	2	41	0	12	31
Deedaheree	•••		2	4	3	2	2	41	1	11	0}	1	1	81	ı	8	0	ı	0	11	0	11	11}	0	11	6
Kotesrah	•••	•••	2	4	21	1	15	101	1	9	31	1	1	3	1	1	712	0	14	41	1	5	2	0	13,	6
Churthewul	•••		2	12	0	2	6	45	2	2	712	1	3	7	1	3	21	o	14	9	o	15	0	0	9	6
Biralsee		•••	2	11	1 }	2	5	3}	1	12	1	1	4	01	1	7	3	1	1	31	o	12	2	o	11	6
Bugrah		•••	2	2	8‡	1	10	3	1	11	03	0	15	5				0	13	9		••		0	31	6

Former demand, demand at deduced revenue rates, and proposed demand.

4. The former demand was = 65,410.

The demand at these

rates would be = 64,587.

The proposed demand = 61,612.

The rates of the new settlement are-

·				Malg	oozat	ee rate.	Cultiv	ated	rate.
	Circle Bur	kullee	•••	1	4	11	1	7	61
Rates of the new settle- ment on circles and castes.	" Dee	edaher <b>ee</b>	•••	0	14	11 <u>‡</u>	1	1	41
	,, <b>K</b> ot	tesrah	•••	1	0	2	1	3	111
	" Chu	irthawul	•••	, 1	4	$5\frac{1}{2}$	1	6	111
	" Bira	alsee	•••	1	5	10	1	9	3
•	" Bug	grah	•••	0	14	4	0	15	31
	Pergunnah		•••	1	3	01/2	1	6	21

5. The rates on each caste in each circle of the new jumma are as follows (calculated as detailed in paragraph 28 of my Thannah Bhowun Report):—

#### I.—CIRCLE KOTESRAH. 1 Tuggahs 4 (three villages.) 2. 6 ·7‡ 0 9 (one Jogees (three ) Sances 0 12 1 4 1 Raeen 73 (two ) 0 14 31 1 1 (four ) Rajpoots II. -Circle Churthawul. 91 61 (eleven villages.) 1. Tugaghs 1 3 0 1 4 91 (two Sances 1 10 3 1 12 ) Garahs (one 2. 1 1 111 1 4 111 Syuds (one ) CIRCLE BURKULLEE 1 12 0 1 4 (six villages.) 1 Tuggahs 83 (three 2. Jâts 0 15 41 3 ) (two 3. Rajpoots 1 9 10 2 (one ) Sances 4. 0 14 21 0 15 111 (one ) Syuds

Deedaheree and Biralsee are composed either of Rajpoot villages or mixed villages which have not been included in the calculation.

- 6. The balances have been reported on separately. Excepting the kusbah, which has suffered from litigation and recent drought, Russoolpoor, which belongs to an impoverished Syud family, Syud Poorah, held by a colony of poor Syuds, and Bhumbela, over-assessed, there is no village which has suffered seriously during the recent settlement. The reductions now made are chiefly owing to the half-asset principle; though, in a pergunnah so much dependent on the rains, I have been careful rather to fall below the mark. The Trans-Hindun villages seem to me to have been assessed at the last settlement in anticipation of the rajbuha which was shortly afterwards run out. Several of them in consequence were straightened previous to the introduction of canal water, and though they recovered rapidly and completely, any considerable increase, having been already anticipated, was at this settlement impossible.
- 7. There were Lumberders at the last settlement. There are now .

  Appointment of Lumberdars and Put. The Putwarees' Circles have been altered from warees.

  to The pay of the highest is and of the lowest
- 8. From the accompanying statements it will be seen that transfers amount to Remarks on statements submitted with about one-fourth of the whole area, and that report.

  the mahajuns have been transferees to the

extent of above one-half in the area transferred, or one-eighth in the whole pergunnah. The cultivating proprietors are as 2,046, against 1,734 in 1840, and the occupant tenants 2,014, as against 896. The average holding of the former is 10 acres; of the latter, 5 acres, 2 roods, 37 poles. The number of cultivators with right of occupancy has as usual increased. The average is rather larger than usual. The average of cultivating proprietors, here as elsewhere, is about 10 acres.

9. In the villages which were formerly included among the "Shurah Nukdee"

Rentals in money fixed in certain villages villages, the particulars of which are known to subsequent to assessment: their results. the Commissioner and Board, money rents have now been fixed. I subjoin the results without reserve, as they show the best light that can possibly be procured on the fairness of my assessments:—

	•	•			or my assessments:—
		$D\epsilon$	ed. Rev. Rates.	Jumma.	Assets.
1.	Dey Chund	•••	889	937	493 acres rented at 2-5-9½ per acre, giving a rental for the whole cultivated area of Rs. 1,646. This land is average, but the rest of the land is held by other classes of tenants, or is seer, and the above rate is low for it.
2.	Jut Nuglah	•••	519	600	942. See Remarks in No. II. Statement.
3.	Aklour	•••	985	1,200	2,090 (93 acres culturable not included).
4.	Kularpoor	•••	765	631	408 acres let at Rs. 2-4-0 per acre, which gives Rs. 1,480 on the total area (see Remarks in No. II. Statement).
5.	Kucholee .	•••	635	600	447 acres let for Rs. 1,038; 60 acres culturable and 18 acres (seer not included in this.)
6.	Kotesrah		4,112	3,792	2,884 acres, the holding of occu- pant tenants, leased for Rs. 7,260, leaving a margin of Rs. 3,468. About 100 acres (seer land, and land held by non-occupant tenants) excluded from this.
7.	Deedaheree	•••	<b>517</b>	540	Rs. 947 rental would be the result of the money rent on the occupant tenants if applied to the whole area. But this rent is low for the seer lands (34 acres) and non-occupant tenants (41). The occupant tenants cover 381.
8.	Muhmoodpoor	•••	595	600	427 acres leased at Rs. 2-4-0 per acre, giving, if applied to whole cultivated area, Rs. 1,150; but this rate is low for seer land, of which are 66 acres. Allowing for this, the demand will be as nearly half as possible.

9.	Dudheroo khoord	Ded. Rev. Rates 1,211	Jumma. 1,097	Assets.  The whole area leased to tenants for Rs. 2,179.
10.	Dudheroo kulan	1,000	1,100	323 acres out of 754 leased to cultivators with right of occupancy for Rs. 971, giving a rate of Rs. 3-0-13, which, applied to the whole cultivated area, gives a rental of Rs. 2,266.
11.	Bannugur	650	600	290 acres out of 604 are leased for Rs. 1-13-3 per acre, which, ap- plied to the cultivated area, and 25 acres recently abandoned, gives a rental of Rs. 1,025.

The increase due to canal is estimated on the accompanying statement at Rs. 3,204.

Mozuffernugger: January 8th, 1864.

A. COLVIN, Settlement Officer.

### PERGUNNAH BUGRA.

This pergunnah is called after Rajah Bag (otherwise known as Rajah Bugra), whose name amidst various revolutions has never been lost. The Canoongoes' records go back as far as Sumbut 992, corresponding to the year of our Lord 935, and to the Hijree year 569, when Sultan Shahab-cod-deen, Gouree, conquering the Hindoo Rajah, "Rai Pattora," took possession of the pergunnah. Its succession continued in the line of the Gouree family (Taj-cod-deen, Shumsh-cod-deen, and others) upwards of four hundred years, until the time of Huzrut Timour, Mogul, who took Delhi in 800 Hijree, from which time the history of this pergunnah becomes mixed up with the reigning families of Delhi. A considerable portion of this pergunnah was included in the jagheer of Begum Sumroo, was settled in the Meerut District by Mr. Plowden, and subsequently transferred to Mozuffernugger.

- 2. The majority of the population consists of Mahomedan and Hindoo Jâts, Rajpoots, Tuggahs, Brahmins, Sheikhs, Syuds, and Mogul Puthans. The Mahommedan faith was adopted by the first-named classes (originally Hindoos), to acquire favor with the Emperors of Delhi. There are no large towns, the largest being Kusbah Bugra, with a population of about 3,724 souls.
- 3. The position of the pergunnah is unfavorable, between the two Rivers Kalee Nuddee and the Hundun; its eastern and western portions slope down to the above rivers, while the centre always remains high and dry, without any means of natural irrigation, and but little artificial from wells and tanks; consequently the drought in the famine year of 1860-61 was more severely felt in this and the neighbouring Pergunnah of Churthawul especially, and to a certain extent in Shikarpoor and Boorhana, than anywhere else in the district. The portion of Pergunnah Bugra situated Trans-Hindun is excepted in this description. Out of the 19 villages to the west of the Hindun, irrigation is carried on in 11 from rajbuhas of the Jumna Canal. The remissions and suspensions of revenue in Pergunnah Bugra during 1859-60-61 amounted to Rs. 7,970-12-9, while advances from charitable funds and succour money were distributed to the amount of Rs. 2,088-6-0.
- 4. At one time it was anticipated that the canal authorities would extend their irrigation from the Ganges Canal by a new cut via Deobund; indeed, the line has been surveyed throughout Bugra also: but the matter has been authoritatively decided by the Government, North-Western Provinces,—vide the orders of the Government on the Administration of the Canal for 1861. We need not, therefore, disturb our calculations by looking forward to any great improvement from this source. Should a cut be here-

after made, this pergunnah will be immensely improved; the difference might then be taxed in the shape of an increased water-rate, but it need not stand in the way of a permanent settlement of the land revenue.

5. By the khusrah measurements the total cultivated area of this pergunnah amounts to 42,017 acres, of which 18,895 acres are irrigated (14,012 acres by wells and 4,883 by canal on the west side of the Hindun); and 23,122 acres are unirrigated: thus more than half the cultivated area is deficient in irrigation. Wells are comparatively scarce; the cost of constructing masonry ones is said to be from Rs. 400 to Rs. 500 for two sets of bullocks, and from Rs. 250 to 300 for one set of bullocks. Kutcha wells can only be made in certain places, and cost from Rs. 25 to 30. 7,108 acres of culturable land is lying fallow, which the pergunnah authorities ascribe to the poverty of the malgoozars, desertion of cultivators,—in fact, to general distress, the results of the year of famine preceded by that of mutiny.

It was my wish and intention to have drawn out a coneise account of the past fiscal history of this pergunnah, but I find that so many mouzahs have been introduced from the Pergunnahs of Churthawal, Shikarpore, and Boorhana, while others again have been transferred to those pergunnahs, that it is quite impossible, especially

* Many of these records were destroyed in the mutiny.

in the confused state of the Canoongoes'* records to give any idea of the rise or fall in the jummas of the successive settlements. A very imperfect list

obtained from the Canoongoe is annexed. The hereditary Canoongoe of Bugra was one of those to whose lot it fell to come under reduction under the new arrangements of the Tehseelee establishments; nevertheless he has been in constant attendance at my camp, and willingly given any information that was required of him. I have, however, ascertained quite sufficient of the past history of this pergunnah to convince me that a light assessment will alone enable the zemindars to recover themselves, while anything like severity will inevitably lead to desertion, to poverty, and to the increase of crime on the part of the Mahomedan Tuggahs, Rajpoots, and Jâts, all disorderly classes. The classes of the Hindoo persuasion are quiet agriculturists. The difficulties the zemindars have to contend with are, it must be remembered, great. First there is, in parts, the sandy, arid nature of the soil, the absence of irrigation, and the limited supply of manure; lastly, there is the want of capital amongst the malgoozars, and desertion of cultivators. All these circumstances combined have impressed my mind with the conviction that the true interests of Government will be best secured by slightly relaxing the full amount of jumma derivable from the deduced This subject will be dealt with more fully in the remarks attached to each village statement. Suffice it now to say that this pergunnah has never been very prosperous, and until irrigation is more extended I cannot see how it is to improve. Applications will be made for advances to construct wells wherever these are deemed requisite, but the remedy will for the present be but partial; considerable time must elapse before any great improvement can take place.

- 6. I look more to improvement from the zemindars themselves, by judicious expenditure out of the marginal profits which I believe I have equitably assessed, than from any wholesale assistance which Government can give. It is always advisable to avoid, if possible, Government agency in these matters. The people must be taught self-reliance. The misfortune is that in parts of this pergunnah the famine has so exhausted the zemindars as to make them in many instances absolutely helpless. Here, I take it, Government aid must be called in when solicited, and when satisfactory security can be given.
- 7. Mr. Edwards, Collector, has made the following remarks on Bugra:—"This is a very fairly prosperous perguunah. I consider the best villages in it are Tutavee, Mundee, Mookundpore, Dhundaolee, and Khatowla. This last has a very light jumma,

and large profits are realized. The village of Peenah was formerly one of the best in the pergunnah, but it has latterly materially deteriorated,—so much so, that a portion of its lands have been in the market, and fetched but little, whereas some years back nothing would induce the people to part with a foot of the soil. The village behaved very badly in the disturbances, and had to be punished more than once, but not so severely as to have permanently injured the mouzah. The people are turbulent, and many of them arrant thieves. Both Burwala and Hursolee are also fine villages, with very extensive area. The former also behaved very badly in 1857. Kanownee may also be mentioned as a village of great capabilities." I cannot agree with Mr. Edwards in the above description, but rather with Mr. Lane, Deputy Collector, when, writing in 1861, he says,—"I have seen little prosperity in the pergunnah. Certainly the season has been singularly unfortunate, but at any time, with few wells and no canal irrigation, it can never bear a heavy assessment."

8. In making rental estimates previous to assessment, I have been guided chiefly by Mr. E. Thornton's old circle rent-rates. These circles are Bugra, Churthawul, Jukhwala, and Kodana. Wherever the classification appeared to me incorrect, I have not hesitated in altering it: occasionally a good village had been under-estimated, and vice versa. The average rent-rates given by all these circles are—

For irrigated meesun,	per acre	•••	5	4	13
" unirrigated ditto,	"	•••	3	13	63
,, irrigated roslee,	"	•••	3	12	3‡
" unirrigated ditto,	"	•••	2	4	5 <u>1</u>
,, irrigated dakur,	"	•••	2	8	6 <del>3</del>
" unirrigated ditto,	"	•••	2	0	24
" irrigated bhoor,	"		2	4	5 <del>1</del>
,, unirrigated ditto,	"	•••	1	5	51

These rates give rather a high out-turn to many of the middling estates which have suffered from the severe drought of 1268 Fuslee; to the better class of estates they can be applied most successfully.

- 9. Mr. Thornton's tables of appraisement, with one-fourth added for rise in the prices of agricultural produce, either to this estimate or the previous one, is not much to be depended on: with this addition, the estimate runs as high as the average of the "nikasees" is low. Messrs. Colvin and Grant think the fussil prices have remained stationary, although the retail prices of the bunneas have risen; and as it is only the value at the former rate which reaches the zemindars, few being able to store their grain until a favorable rise in the market should occur, it is not equitable to increase rental estimates by an anticipated enhancement in the value of agricultural produce. As I entertain considerable doubts on this subject, whether fussil or marketable harvest prices can possibly remain stationary, while retail traders are selling at a higher value, I have continued the practice which I followed in settling the Mozuffernugger Pergunnah of allowing a margin for a general rise in prices. I do not profess to have strictly followed this or any other estimate, for I have gone on an average of several estimates, as the most likely to be free from egregious blunders; and I feel confident that where I have erred it has been on the side of moderation. Close inspection of each village has materially guided me in apportioning the proposed jummas.
- 1d. It is lamentable to think how incorrect have been the averages of the Putwarees' annual papers, notwithstanding the labor that has been given to instruct these officials, and to get correct returns of the condition and resources of each village. In Bhyachara villages, one could hardly expect the Putwaree to obtain a correct out-turn of each village and field, but that he should, as a rule, so grossly under-estimate the net produce was scarcely to be anticipated. Where the zemindars

are in the habit of letting out land at so much the kutcha beegah, and these leases are entered in the nikasees, we can arrive at a very fair approximate rental; but these cases are not common. These leases, or "tashkees," as they are called, average from 10 to 12 annas per irrigated village beegah, and 5 to 6 annas unirrigated. In the best villages, the rate is as high as one rupee for the former, and 6 to 8 annas for the latter; mostly, however, rents are received in kind, which makes the operation of discovering the rental produce a difficult matter.

- 11. I have pursued very much the same modus operandi which I have already mentioned in my report on Mozuffernugger. I have carefully visited every village in the pergunnah, collected its past history, taken a survey of the Khurreef crops of 1270 Fuslee, patiently heard all that the zemindars had to say for themselves, and classified the estates into three kinds. To the first I have fixed full rates, to the second a let-off from the circle rent-rate, and to the third, or worst class, I have given more consideration to the results got by an examination of the nikasees and the zemindars' statements of income actually received. Estimates, too, have been taken from the pergunnah officials; these placed side by side, and looking at the rates of the old jumma in the neighbourhood, I proceeded to assess at what I considered to be a fair demand at half assets.
- The great difficulty I had to contend with in this pergunnah was the depressed condition of the majority of the zemindars; they are only just recovering from the effects of the famine which destroyed men and cattle. Take, for instance, the case of Sydpoora Khoord, a petty village close to Bugra. The malgoozars are impoverished Syuds. They broke down so completely in 1268 Fuslee that Rs. 870 had to be suspended. The soil is in parts sandy, in others there is good wheat land; no resident cultivatorsonly a few wretched hovels in which the Syuds live. The jumma was originally Rs. 270; at the last settlement it was raised to Rs. 667, which gave a rate or the malgoozaree acre of Rs. 1-1-51. The past demand has been realized with the utmost difficulty. From the nikasees in good years we obtain an out-turn of Rs. 1057. Mr. Thornton's circle rent-rates go up as high as 1,700 odd rupees. Hurdeean Singh, Races of Bugra, says the estate cannot bear a higher jumma than Rs. 450; the pergunnah officers propose a demand of Rs. 325. In consideration of the extreme poverty of the proprietors, and in the hopes that a light jumma would in the course of time bring them round again, I reduced the demand to below half assets got by the circle rent-rates, -viz., to Rs. 400,which gives a rate on the cultivated acre nearly 9 annas cheaper than in the conterminous village of Bugra, with its large number of resident agriculturists and traders. I could not, under the circumstances, avoid this great inequality.
- 13. The old pergunnah jumma was Rs. 86,362, leaving out annas and pies: this at two-thirds, according to Mr. Thomason's principles of assessment, would give a net rental of Rs. 1,29,543, or a jumma at half assets equal to Rs. 64,771. The proposed jumma amounts to Rs. 81,670; so that, although there is a decrease on the past demand, there is really at half assets a considerable increase,—mainly due, of course, to excess of cultivation. The remarks against each village in the No. II. Statement will show my grounds of assessment. I have there endeavoured to dot down all the information I could collect which bore on the subject.
- 14. The number of transfers—30½ per cent.—is high. Out of 75 mehals, 18 entire estates only have escaped mutations of some kind or other, and the prices, both by private sales and decrees of Court, are so low that one is led to the conclusion that landed property in this pergunnah could not have been a desirable acquisition. The zemindars are, I fear, very much in debt to the buneeas. It would appear that without the aid of the money-lender, who can exact any interest he likes, the zemindars are unable to acquit themselves of their dues to Government. As I moved through the pergunnah in the cold weather of 1862-63, the complaints against the usurious and fraudulent practices of the buneeas met me in every village almost that I visited; and I

feel it my bounden duty to place on record my opinion that it is a most serious matter. It is one that must engage the deepest attention of every Collector who is at all interested in the wellfare of the zemindars of his district. I am inclined to the opinion that a positive order from Government prohibiting sales of landed property for the recovery of debts would be a politic measure; or, if this be disapproved, I think the Civil Courts should be directed to resort to sales in a far less degree.

In the Pergunnah of Mozuffernugger, I found transfers numerous, and the complaints against the buneeas equally loud; but I there gave it as my opinion that the Syud proprietors had brought it on themselves by their own extravagance. Nevertheless, as I become more acquainted with the facts, I may be allowed to qualify that decision, and I must say that there are very strong grounds for believing that the moneylenders have taken undue advantage of the ignorance of the agricultural classes of the country.

15. It will be observed that the jummas have fallen in that portion of the pergunnah which lies between the Rivers Kalee Nuddee and Hindun, while in the few canal-irrigated estates to the west of the last-named river there has been a slight increase. The revenue rates for the two portions Cis-Hindun and Trans-Hindun are as follows:—

Rs. As. P.

Cis-Hindun	{	Revenue rate per acr Ditto ditto	e malgoozaree cultivated	1 1	9 14	7 <del>3</del> 0⅓
Trans-Hindur	1{		malgoozaree			

The revenue rates for the three classes of estates into which I have divided the pergunnah are—

Class I., or Supe- rior Circle {	ue rate Ditto	per acre ditto	malgoozaree cultivated	0 6	3 <del>1</del> 5 <del>1</del>
Class II., or Mid- dling Circle {	Ditto Ditto	ditto ditto	malgoozaree cultivated		0 <u>↓</u> 1¼
Class III., or In- ferior Circle	Ditto Ditto	ditto ditto	malgoozaree cultivated	15 3	$\begin{array}{c} 1\frac{1}{4} \\ 9\frac{1}{2} \end{array}$

On the whole area of the pergunnah the revised demand falls-

Per acre malgoozaree ... Rs. 1 10 7

Ditto cultivated ... , 1 15  $3\frac{1}{2}$ 

Although there has been a reduction of Rs. 4,671-8-3, still the revenue rates remain higher than in the neighbouring Pergunnahs of Mozuffernugger and Churthawul. The fact is, Bugra was fully assessed at the last settlement, while Mozuffernugger before the introduction of the canal had very light jummas indeed. It was not possible to entirely equalize the two pergunnahs, merely for the sake of an apparent conformity, without making either too great a reduction on the one side, or too heavy an increase on the other. Pergunnah Churthawul, although it greatly resembles Bugra, is, on the whole, more depressed.

16. Observing a very considerable sandy deposit in all the rajbuhas of the Eastern Jumna Canal which irrigate the estates Trans-Hindun, I wrote to Major Brownlow, Superintendent, to ascertain whether any injury was likely to occur from these annual deposits of sand. I was under the impression that, in the long run, the soil must become impoverished. Major Brownlow, however, writes that, so far from being deleterious, the deposits contain valuable organic matter calculated to improve the quality of the soil, and quotes as examples the slopes of deserted rajbuhas in the Meerut District, on which the finest wheat crops are grown. There can be no doubt, I think, that well water gives much heavier crops than canal water. All the zemindars agree on this point; and they admit, further, that a good deal of damage is done by the lazy way the people have of deluging their lands; but the question which of the two

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kinds of irrigation, well or canal, is the most profitable, is of no practical utility, for the zemindars are now entirely dependent on the canal for irrigation.

- 17. The accompanying Pergunnahwar Returns will show the extent to which I have been converting rents from kind into money. By this process two most important objects have been attained: firstly, numerous disputes about the form of rents have been settled; secondly, a thorough insight has been gained as to the fitness, or otherwise, of the revised jummas. So complete has been the scrutiny that I have no hesitation in declaring the assessments to be equitable and in conformity to the half-asset principle. In all cases of dispute, rents have been fixed in cash according to the average of actual payments for similar lands in the neighbouring estates: so that if the jumma had pinched at all the truth must have come out; but I am glad to say that nothing has occurred to shake my confidence in the stability of my proposals.
- The zemindars have not been backward in taking up the new jummas. only of the wealthy proprietors—viz., Nowab Ahmed Ali Khan, of Kurnal, through his Mooktears, and Lalla Oodeyram, Mahajun, personally-complained against the severity of the demand in Cazee Khaira and Peena; but as they were not assessed higher than their neighbours, and the estimated assets fully bore out my proposed jummas, I overruled their objections. These gentlemen seem to think the process of declaring and accepting jummas is a sort of auction, at which it is quite legitimate for the Collector, on the part of Government, to make the highest bid, and the malgoozar the lowest. I explained to them that the revenue is based on well-calculated data, and cannot be altered on such vague, flimsy objections as those under consideration. After some The Mahomedans of uscless procrastination, the objectioners signed engagements. Chuk Maâfee, Kusbeh Bugra, gave some trouble. Their ancestors formerly enjoyed the land rent-free, and they thought they might as well battle with the Collector, to see how cheaply they could be let off, notwithstanding that the revenue rates were extremely light; and any argument on the subject was quite out of the question. Eventually these obstructive, clamorous people were obliged to yield the point.
- 19. The only other subject worthy of notice, as far as the assessment of this per* Vide paragraph 38 of Mr. Rose's gunnah is concerned, is the great number of BhyaSettlement Report on Cawnpore, 1841. chara villages, chiefly Jât proprietors. It has been the
  custom to over-assess* these industrious communities because they produce a greater
  proportion of the valuable crops, such as sugar-cane, cotton, &c. This is manifestly
  unjust and impolitic. No doubt the resources of an estate must always be affected by the
  character of the proprietors and tenantry: a village owned by Jâts will always pay
  more than one belonging to the depraved class of Goojurs; still it is the interest of
  good government to encourage industry in every form, and not to tax unduly the profits of capital. Both my predecessor, Mr. H. G. Keene, and myself have been alive
  to the truth of this principle, and the result has been that these admirable Jât brotherhoods have now for the first time been moderately assessed, due regard having been
  paid to the provisions laid down in the Directions to Settlement Officers, paragraph
  65; and paragraph 37, Appendix No. XX., Saharunpore Directions.
- 20. The usual statements—both those prescribed by the Directions to Settlement Officers, by the recent Circulars of the Board of Revenue, and others containing valuable statistical information—are submitted.

S. N. MARTIN, Collector.

### PERGUNNAH POOR CHUPAR.

(Pergunnah Poor Chupar is bounded on the north by Zillah Saharunpore and Pergunnah Goordhunpore, on the west by Saharunpore and Pergunnah Mozuffernugger, on the south by Mozuffernugger, and the east by Bhokurharee and Goordhunpore.)

In former times, upwards of five hundred years ago, a Cazee, Syud Nizam, is said to have come from the direction of Persia, and to have established himself

at the town of Poor. Previously, during the incumbency of the Rajah of Pithors and other Hindoo Rajahs, the pergunnah was known by the name of "Chupar Khooda." The two names becoming blended, it is now generally called "Poor Chupar," and the principal town "Cazee-ki-Poor." The Canoongoe professes to trace the line of Hindoo Rajahs over a period of 4,181 years. The Mahomedans came into possession in 569 Hijree, corresponding to the close of the 12th century, and continued to 1167 Hijree, or A. D. 1773, after which there were constant revolutions between the Mahrattas and Mahomedans. The English rule dates from 1803.

2. The predominant classes are Jâts, Tuggas, Brahmins, Bheora, or people from the Deccan, Bhats, Soonars, Sweepers, and others. Families of Jâts and Tuggas are in groups,—that is, a dozen of these villages are to be found close together, all claiming one descent. When the pergunnah was re-cast in 1842, 62 mouzahs composed the whole area, bearing a jumma of Rs. 60,059; but since then a quantity of land has been taken up for the Ganges Canal, for rajbuhas and for roads, reducing the jumma to Rs. 56,947-3-0.

Of the 62 mehals, 48 are banghur, 8 kadir and banghur, 6 entirely kadir.

3. Although some estates have suffered from "choel," or percolation, this pergunnah has been generally considered to be more advanced than either of the neighbouring ones, Mozuffernugger or Bhokurharee. How fallacious this estimate is will be seen subsequently. It is computed that 1,336 cultivated and culturable acres have deteriorated by percolation, and yet by the measurements the cultivation has increased by 3,350 acres since the last settlement. The proportion of the better crops, according to the Ameens' Returns, is more than half the whole cultivation.

Of the cultivated area, 26,284 acres, or about 63 per cent., are irrigated; 14,819 acres, or 37 per cent., unirrigated.

The classes of soi	l composing	the irrigated	and	unirrigated	ATAR ATA :
TOP CIRRRES OF BOI	i composin <i>o</i>	tne irrivatea	HIII	THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PE	area are :

I	Kind of soil.		Irrigated.	Unirriga- ted.	Total.	Per cent. to whole area.	Per cent. to cultivated arca.	
Meesu	n		·	9,903	640	10,543	18, or something less.	26 (a little less).
Roslee	•••	•••	•••	15,731	10,293	26,024	41}	63 (a little less).
Dakur	•••	•••		351	366	717	1, and something more.	11 (a little more).
Bhoor		•••	•••	299	8,520	3,819	6½ (a little more).	9] (a little more).
Waste	and l	Minha	<b>8</b> e	17,	596 acres	•••	30-	

The above classification is from the Ameens' papers, and, like most of their measurements, errs in the description of soil. I am sure the "bhoor" land in this pergunnah is at least 14 or 15 per cent.

4. A very distinguishing feature of this pergunnah is the capricious course taken by the sand hills. At some places these hills run nearly parallel to each other, with an intervening distance of two or three miles; at other points they close in towards

each other, and everywhere are to be seen offshoots gradually sloping away till they meet the level of the surrounding country. Colonel Cautley, the projector of the Ganges Canal, in his report, attributes these sand hills to the action of wind. On the slopes corn and barley grow best, but should there be any deficiency in the rains the crops must fail. This year—1863—I observed that the plant was fast discoloring, owing to want of rain. The income from such lands is of course precarious in the extreme. Within these sand hills are to be observed channels which look very like the tortuous courses of rivers; in the hollows, the water which falls on the surface is retained a longer time, and hence their greater fertility. Examples of these are to be seen to the west of Chupar, in Koulahairee, and other mouzahs.

5. Judging from the accounts of the pergunnah officers, and also from the reports of Rai Nanuk Chund, Deputy Collector, who examined most of the villages, I was prepared to find this a highly flourishing pergunnah. I have personally inspected every village both on the bangur and the kadir lands, and taken notes of everything I saw or heard. To my surprise, I found in many villages that a great part of the area, though watered in parts from rajbuhas of the Ganges Canal, consists of sand called "bhoor," or "danda," and the soil is fit only for the most inferior Khurreef crops, such as bajra, mote, &c., and occasionally in the Rubbee. wheat and barley. Those estates in which "bhoor" land prevails have paid the past jumma, not without difficulty. In Kusbeh Poor, for instance, the revenue was never realized until an officer was specially deputed to the spot, and even then after great delay. Increase on the past demand to any great extent I saw at once was impracticable; the jumma could only be raised in those villages where there was less "bhoor" with increased cultivation, or where there were hollows retaining the surface water, as in Chupar and others, the soil being favorable to the production . of good sugar-cane and cotton, and there being plenty of resident cultivators. the list of villages annexed to this report it will be seen how very few I have been able to reckon amongst the first or best class; indeed, I think I should have curtailed the list as it stands. The few really flourishing estates are-

Burla.
 Phulaoda (two puttees).
 Chupar.
 Khooda.
 Kootubpore.
 Khykheree.

Out of sixty "khalisa" mehals, only these seven (Phulaoda has two completely separate puttees) possess all the elements which constitute superiority.

6. I entered this pergunnah backed by the experience gained in assessing Mozuffernugger, and was under the impression that, owing to the introduction of the Ganges Canal, an excess of at least Rs. 10,000 over the past jumma might be acquired. The pergunnah officers thought likewise, but it was evident that they had never visited the villages. The Canoongoe is certainly new to the pergunnah; he belongs properly to Mozufferngger. Since the reduction of Tehseel establishments, his duties have been increased; so that he is now recorder of a new division.

The Tehseeldar, Syud Mahomed, is one of the "Raees," or old gentry of the district. I doubt very much if from this class really good Tehseeldars are ever procurable; at all events, those I have seen in this and other districts have been inferior officials. Syud Mahomed knows very well how to screw the revenue out of the people, but he is unacquainted with legal procedure or the duties of a Settlement Officer. I have not received any assistance from him in revising the settlement; whenever called upon for a report, the reply he has been able to furnish has been worthless; consequently I directed him to remain at his Tehseelee (he was subsequently removed to Allygurh).

7. Rai Nanuk Chund, Deputy Collector, an experienced officer in the Settlement Department, pitched his jummas a great deal too high; he was misled by placing implicit reliance on Mr. E. Thornton's chuk rates, adding one-fourth for the increase

of prices, which Messrs. Colvin and Grant think erroneous, because the fussil prices had really not risen since the last settlement. Mr. Thornton did not fix an irrigated rate for the Poor and Chupar Circles, because the irrigation in those days was nominal. The Deputy, therefore, took the "kunkoots," or appraisements, of a dozen or more villages, and obtained some rough "chittas" from the zemindars, from which he eliminated the following standard rates (summary):—

		Irr	igated	l by	Canal.	Unirrigated.
			Rs.	As.	. P.	Rs. As. P.
Rent-rates per acre	•••	•••	4	5	0	2 6 0

In this calculation there occurred this error, that the water-rate of one rupes paid by the zemindar to the Canal Department had not been deducted: omit this, and the rent-rates would be—

	Irrigated. Rs. As. P. 3 5 0		Unirriga		ıted.	
]	Rs.	As.	P.	Rs.	As.	P.
	3	5	0	2	6	0
About the ratio of	1	6	3 <b>4</b> to	1	0	0

* This proportion was applied to the various kinds of soils. Well irrigation is almost entirely unknown in this pergunnah (vide statement of masonry wells).

8. The pergunnah rental estimates obtained are—

By the quinquennial average of "Nikasees," excluding the exceptional year of famine ... ... Rs. 1,04,431 (Vide sample of process given in the Report for Mozuffernugger.)

By the summary rent-rates taken from records in the office ..., 84,962

By Mr. E. Thornton's rates of appraisement ... ... , 1,42,369

Ditto ditto circle rent-rates ... ... , 1,73,000*

With a fourth added for rise in prices.

* (This I found too heavy and I was obliged to drop the addition of one-fourth to the circle rates.)

By Rai Nanuk Chund, Deputy Collector, after deducting the portion of canal water-rates paid by the malgoozars ..., 1,42,000

The most practicable of these esti- Rs. 1,42,000 mates is the last one,—viz., 3,170 Deduct for extra cesses.

,, 1,38,830

,, 69,415 Half assets, or Govt. jumma.

The jumma I propose is Rs. 59,330, but then it must be remembered that I have ascertained that there is more bhoor and danda land than has been allowed for in the measurement papers, to which the average circle rent-rates according to Mr. Thornton cannot be applied. Secondly, the khadir estates bordering on the Solanee Nuddee have been completely destroyed by the action of percolation, while of the bangur and khadir estates, such as Noornuggur, Booncha, Mirzapore, Shahjehanpore, Jubbulpore, Godna, Godnee, &c., the bhangur lands only are now fit to cultivate. Even where canal irrigation is practicable, production is dwarfed by the sandy nature of the soil, and the crops on the bangur are further greatly injured by the ravages of the pigs and other wild animals which come up from the khadir every night, and return to their haunts before dawn. To prevent injuries as much as possible, licenses have been largely given to zemindars to carry arms.

9. Of the four classes of estates into which I have divided this pergunnah, the following are the rent and deduced revenue rates which I have assumed as my standard on the malgoozaree acre.

## On cultivated area, per acre. On Malgoozaree area, per acre.

			Summary rent-rate.	Revenue-rate of revised jumma.	Revenue-rate of revised jumma.		
*Class	I.	•••	3 12 0½	1 11 1	1 8 103		
	II.	•••	3 8 01	1 5 $6\frac{3}{4}$	1 2 $11\frac{1}{2}$		
Class	IIL	•••	$2 \ 8 \ 4\frac{3}{4}$	$0 12 6\frac{3}{4}$	0 10 6		

Class IV., or "choel" estates. Of these I am unable to give any data, the revenue, nominal as it is, being collected from the sale of thatching straw and from grazing fees. In the rains the whole of these khadir estates are inundated, and during the dry weather the percolation is so extensive as to reduce the capabilities to nil. During the Khurreef of 1271 Fuslee, the khadir estates were all under water; not an acre was sown. For further information, vide file of correspondence.

The revenue-rate for the whole pergunnah is-

Per cultivated acre.

Per malgoozaree acre.

1 7 2

1 3 111

The rent-rate for the whole pergunnah,—that is, the rate at which the standard rental for the entire pergunnah falls,—

Per cultivated acre.

#### 3 8 61

- 10. As I said before, I found the rent-rates high for so much bhoor land, and purposely fixed my jummas lower. By the Canoongoes' "kunkoots," or appraisements, for 1270 Fuslee, a pergunnah rental amounting to Rs. 1,26,669 was obtained; from this if we deduct the extra cesses, the pergunnah jumma would be about Rs. 60,000. Allowing that the appraisements were properly conducted, the result shows that the proposed jumma of Rs. 59,330 is not very far out.
- 11. I have followed the same mode of assessment in this as in the other two pergunnahs—Mozuffernugger and Bugra—previously settled and separately reported upon. I shall not repeat the process of induction by which an approximate rental has been obtained; the only difference in this pergunnah was, a rate for wet lands had to be discovered for the Poor and Chupar Circles; how this was done has already been explained in paragraph 7 of this report. The results of the present revision of settlement no doubt show a light rate upon the whole cultivated and malgoozaree area, and I purposely meant it should be so; for I am convinced, from a very close observation of every mouzah in the pergunnah, that a higher jumma could not have been realized without resort to coercive processes, ending finally in signal disappointment. A very numerous Bhyachara community hold most of the landed property, and wherever this is the case great caution is necessary.
- 12. The fourth, or Choel Circle, as I have called it, is very peculiar. It consists of two kinds. The first and better kind should include those estates which formerly had both bangur and khadir lands, the latter only having been lost by the action of swamp or percolation. The second kind consists of those where the whole area is in the khadir, and now completely destroyed by percolation,—the income, insignificant as it is, consisting of the price of thatching straw and scanty grazing fees. The jummas on the former estates might be retained; those on the latter are so completely nominal that I would recommend their being revised after five years,—vide correspondence regarding "choel" estates in Pergunnahs Goordhunpore, Poor, and Bhokurhairee.
  - 13. The usual statements are to be found among the annexures.

S. N. MARTIN,

Collector.

P. S.—I have now had two years' experience of the settlement of this pergunnah, and I can confidently say it is neither too light nor severe. The average malgoozaree and cultivated acre rate may give the impression that the revenue is very

^{*} The standard rent-rates for each class of soil have been given in the general report.

light. In practice such is not the case, and I can give the best proof of this. As Collector, and Manager of Minors' Estates, I have charge of shares in Busserah, the whole of Shukkurpore, Boocha, &c., property belonging to the minor Rajah of Landhoura. In no single case does the income exceed the jumma, and in very many cases I have not yet been able to bring the profits to an equality with the expenses. The fact is, the soil in this pergunnah is very poor indeed, much intermixed with sand, approaching what is well known as bhoor. Nothing but a very light assessment will ever answer. Mr. Wynne writes (demi-officially) that the neighbouring Pergunnah of Munglour, in the Saharunpore District, bears a heavier assessment. I do not know what sort of a pergunnah Munglour is, but I am quite sure of this, that at half assets I have gone quite high enough for Poor Chupar, and I would not increase the present settlement by a single farthing.

S. N. MARTIN,

The 20th May, 1865.

Collector.

No.

FROM

H. G. KEENE, Esquire,

Collector of Mozuffernugger,

To

F. WILLIAMS, Esquire,

Commissioner of Meerut Division.

Dated Mozuffernugger, the 15th March, 1862.

SIR,

THE District of Mozuffernugger is formed of part of the jagheer of the late Begum Sombre, and part of the old soobah of Saharunpore, the Bawunee Mehal of Nawab Zabitar Khan, whose seat was at Gousgurh, near Thannah Bhawun. It is bounded on the east by the Ganges, on the west by the Jumna, and is traversed longitudinally by three small streams running parallel to those rivers, and called the Kalee, the Hindun, and the Keorsanee.

Between the Ganges and Kalee is a doab watered by the Ganges Canal; the Eastern Jumna Canal irrigates nearly the whole tract between the Jumna and the Hindun, but the central tract, or doab of the Hindun and Kalee, an area of more than a lakh and a quarter of acres, is at present dependent on the seasons, as are also the Pergunnahs of Bidhowlee and Goordhunpore, and parts of the other pergunnahs. The district is almost entirely agricultural, such towns as there are being chiefly supported by the sale of raw produce. Large quantities of sugar, cotton, and cereals are produced. Of the two former, about two-thirds are estimated to be exported towards Rohilcund and the Cis-Sutlej States, the eastern entrepôt being at Meeranpore, and the western at Shamlee. The income of the trading classes is under 25 lakhs per annum.

- 2. The present population of the district is about 580,000 souls, among whom there are about 27 per cent. of the Mussulman faith; nor is this simply owing to the large extent to which Syuds, Sheikhs, and Puthans have settled here during the days of Mahomedan supremacy, for the greater part of the Rajpoots and Goojurs are descended from persons who embraced the religion of their rulers. Among the Hindoos, the Jâts are the most numerous, though some of this tribe, too, are to be found among the Mahomedans.
- 3. The proportion of food crops is probably below the wants of this population, let alone a further batch of some 50,000, chiefly weavers, and such like, who are

excluded from the above reckoning, as having emigrated during the late droughts. I put the annual out-turn of food crops at 35 lakhs of maunds, or about 500fbs. avoirdupois per annum for each individual. The money value of the other articles—sugar, cotton, indigo, and fodder—may amount to a yearly average of 11 lakhs of rupees; or, say, in round numbers, a sum equal to the yearly Government jumma of the district.

- 4. Preliminaries.—On assuming charge in March, 1860, I found myself required to institute preliminary measures in view to the approaching revision of settlement throughout the 17 pergunnals into which the district is divided,—my predecessor having had no time to do more than appoint a teacher for the Putwarees of Tehseel Thanna Bhawun.
- 5. I lost no time in starting the instruction of the Putwarees on a general system throughout the district, in which I had the less difficulty, having personally seen to the matter in 1854-55, when Deputy Collector. Mr. Colvin and Rae Nanuck Chund joined early in the following month, and gave me great aid; and the whole of the *Collector's No. 148, dated 15th Putwarees were soon trained in surveying, as remay, 1861.

  Putwarees were soon trained in surveying, as remay, 1861.

  The boundaries were also adjusted and marked off according to the existing rules, at various periods in 1860, and during the first quarter of 1861.

The Canoongoes were also furnished, through the Tehseeldars, with a standard set of questions which they were required to answer in regard to each of the estates under their charge (on the 5th June, 1860). In October, interior measurements and plane-table surveys were commenced in three Tehseeldarees, and the khusra headings issued for record according to the Board's orders of 26th August, 1856. was constantly inspected, under my control and supervison, by European officers, and by Deputy Collector Nanuck Chund. The method of operation was witnessed by Mr. Muir and by yourself. We did not confine our scrutiny to completed surveys, but ourselves took part in the work from time to time, and in villages chosen quite at random. The officer inspecting a pergunnah was also provided with a note-book, in which I had inserted a map of the pergunnah on a scale of one mile to an inch, and a transcript of such part of Mr. Edward'st notes as Received from the Commissioner, 18th April, 1860. bore on the pergunnah or any of its estates. All but those watered from canals were at a low ebb of agriculture, and the results of the inspections were recorded, and subsequently used in preparing rolls for submission, in view to the suspension of revenue where it appeared necessary. The correctness of the survey is shown by its general accordance with that made under professional superintendence at the last settlement, any substantial difference being immediately the subject of detailed enquiry and explanation. This work was reduced to record, and subjected to analysis during the ensuing hot season; and the submission of the prescribed statements kept you acquainted with the progress that was going on.

6. In October last, the work of final inspection and assessment was set on foot. Before entering on any local details, it may be as well that I should briefly sketch the principles on which it was found necessary to proceed in ascertaining the condition and capabilities of the assets in reference to peculiarities in the local system. The general rules laid down in Mr. Thomason's Directions to Settlement Officers, paragraphs 47 to 51, and in the Board's Circular No. 1, were borne steadily in view, as enjoined in the Saharunpore Instructions. The latter part of Section 35 of those rules was the more easily obeyed by help of the Canoongoe's answers to the questions referred to above (in conjunction with the No. II. Statements),—all being checked by reports from the Collector's office, by Mr. Edward's recorded opinions, by the inspection notes of the officers, and by local knowledge. A further special examination of the peculiarities of each estate had also to be made at the time of assessment, particularly where the recorded facts and observations indicated any probable grounds for material alteration of the jumma. In this way a classified precis of information has been

obtained and recorded in English, such as cannot fail to be of great use to public officers stationed here for many years to come. But it was found that there were features attaching to the management of land in this district which might be made of peculiar service in gauging the value of any property under examination, chief of which I beg leave briefly to describe.

- 7. Rental Estimates.—For instance, it appeared that the classification of soils on the Goruckpore scheme formed but an imperfect index in Mozuffernugger, both by reason of the considerable prevalence of corn-rents, and of the arbitrary character of the results. Moreover, however well the soil might be classified, there remained this objection, that it only showed the state of the tillage during an exceptional period, when properties dependent on rain were nearly deserted, while canal villages were the scene of an unusually stimulated cultivation, caused by the high prices of produce. Land not under cultivation at the time of measurement would not, of course, be described (otherwise than as it might be "old" waste or "new"); and thus, if A were a Barance estate, the malgoozar would have an opportunity of enhancing his poverty, as much as his neighbour of B on the canal would be subjected to an undue exhibition of prosperity, which would dwindle when the return of seasonable rain should send back to A the cultivators who had left it for temporary employment on B.
- 8. None of these objections applied to a classification of rents, according to the customs locally obtaining.
- 9. Rents in this district are of three kinds. For certain articles it is usual to take payment from the tenant in cash, at rates varying according to the article pro-

•			Rs.	Aв.
Sugar, per acre		•••	17	0
Cotton, ditto			8	8
Maize, ditto			4	0
Fodder			3	0
N. B.—This las	st arti	cle cor	asist	s of
Joar (Holeus Sor	ghum)			
usually called Chu	ree.			

duced, and the greater or less fertility of the soil, and other similar conditions. These articles are noted in the margin, with their average rates of rent, taking one part of the district with another. Such rents are called "zubtee," for what reason I am unable to say. The total amount, as above stated, is about equal to the

#### Government demand.

- 10. The second description of rents is that usually taken in kind or at estimated value for all the other kind of crops, including the whole produce of the spring harvest, as also the millets, joar and bajra, when grown for food. The proportion taken is, for the most part, rather less than half, though the full moiety is taken in some instances. This is called "nijkaree."
- 11. The third kind of rent occurs where the habits or exigencies of the Malgoozars lead them to farm out patches of land to cultivators, often from other estates, who pay from 8 annas to 2 per local beegah* all round, whatever they may grow. This goes by the name "of tushkhees," or fixed assessment. And when, as sometimes happens, this system prevails throughout an estate, we learn to a close approximation the value of the assets, and can assess, nearly or entirely, upon the rent-roll (vide Thomason's "Directions to Settlement Officers," paragraph 52).
- 12. Otherwise we only reach that portion of the rent which may be paid in money,—i. e., the zubtee, and whatever tushkhees there may exist; and the problem of ascertaining the value of the property is, on the whole, still unsolved, for the great difficulty, of course, is to learn the average amount of the nijkaree rental in such estates, in which very often the cultivation is almost exclusively in the hands † Vide G. O. No. 857, dated 1st July, of the proprietary community. It has been admitted 1856, paragraph 7.

  by superior authority† that the annual Putwarees' papers are not capable of adoption "as the jumabundees of settlement." How untrustworthy they sometimes are I had an opportunity of showing, in 1860, in the

notorious case of Mouzah Bhynswal, Pergunnah Shamlee, where little more than a tenth part of the profits was entered in the Nikasee of 1267 Fuslee.

- In order, however, to obtain a minimum capability for purposes of comparison, these papers were utilized as follows:—The total area and rental for five years being added up, and the latter divided by the former, a produce rate is obtained, the application of which to the cultivated area at the time of survey (adding any excess of new waste over and above the quinquennial average) gives the net produce according to the Putwaree's record. In order to check the tendency to under-statement, which is found to be universal, other plans were adopted; among them, an excellent one suggested by Mr. Auckland Colvin, which we call the Reybundee, and which may be thus described :- Retaining the quinquennial average of zubtee produce, which is founded on recorded money-rates, nijkaree average rates for the whole district are formed by the application of Mr. Thornton's appraisement to the mean quinquennial area devoted to the various nijkaree crops. The result is added to the zubtee, and the total far exceeds (in a majority of cases) that obtained from the nikasee rates. To render this estimate still more complete, I have caused it to be reckoned at the average prices current of each article for the ten years immediately preceding the great drought.
- 14. As, however, the necessity of filling up the No. III. Statement involved the classification of soil, and as this method undoubtedly furnishes a very useful standard of comparison, another estimate was formed by applying Mr. Thornton's circle rates to the classified area during the year of survey. This method is free from the objection applicable to the last named, which is founded on a district average of fertility; whereas, if the classification of soil be but correct, the application of the rates of a properly selected circle really shows the exact state and value of the cultivation, during the year under review, at the old revenue rates. To bring this into conformity with the other estimates, from 25 to 33 per cent. must be added, according to what there may be reason to believe was the Settlement Officer's principle of assessment. And it having been found that the average price of wheat has lately been ruling much higher than it did in 1840, it has to be remembered, in examining the No. III. valuations, that a further addition of about a quarter will be required to give a fair jummabundee in all estates where no special reason may be shown in the remarks for a lenient jumma. In the Pergunnah of Boorhana, the estimate thus formed is more than usually fallacious, because, not having been settled by Mr. Thornton, it had no rates available for expressing the supposed value of the different classes of soil but those of Mr. Thornton's nearest circle, and this had no necessary bearing on the question. This estimate, therefore, here, and in the estates of other parts similarly situated, was scarcely regarded at all in assessing; and the only way of giving reliable data in the No. III. Statement has been to add the rental classification below that prescribed. Thus, in Nuseerpore, we find the total value (according to the rates of the nearest chuk, that of Shoron) to be 890, while the jumma is Rs. 773 (and the Canoongoe's Doul 918, or more than the whole assumed value). The lower entries, however, show that the value assumed was in fact Rs. 1,086, on which my proposed jumma of Rs. 535 becomes reasonable, and the former jumma is shown to have been excessive. So, in Shadubur, the rental, according to soil, is 1,782, the jumma being Rs. 1,380. My assumed value was Rs. 2,254, and my proposed jumma is Rs. 1,131.
- 15. Local knowledge, and a careful investigation of the rent-rates, compared with the records of the Act X. files, will suggest many clues to the valuation of assets; and a pergunnah rate will be ultimately framed for irrigated land, and a second for the dry land. The application of this to the respective total areas forms a pergunnah jumma, the distribution of which over the various estates will be checked by constant reference to the other estimates, and its discrepancy in particular cases will supply hints for study on the spot.

- 16. Finally, I have found, in working after such men as Elliott and Thornton, that a proportional increase on their jummabundees, with a due allowance for the advance of prices since their day, will often yield a sum curiously corresponding to the results of other, and quite independent, estimates.
- 17. To illustrate the nature of these operations, I would beg examination of the subjoined specimen estimates taken from a number of estates which have no canal irrigation, and where the breaking up of new land, and the rise of ruling prices, are the only changes which have occurred since settlement.

Poor Baleean (Jumma, Rs. 4,834).

I.—Nikasee rates.	II.— Mr. Thornton's rates.				
Zubtee, Rs. 3,215	Rs. 3,215				
Nijkaree, ,, 5,975	,, 10,775				
• <del></del>					
Rs. 9,190	Rs. 13,990				

III.—Circle rates, Rs. 11,004.

IV .- At Pergunnah rate, Rs. 12,380.

V.—Proportional increase, Rs. 10,433.

Mr. Edwards left it on record that this estate would bear a "material increase of jumma." This opinion is borne out by all but the first estimate; although the second, or Reybundee, formed on Mr. Thornton's rates, is in excess of the others. This is readily accounted for on visiting the property, which, after a minute and protracted examination, proved to contain a great deal of land of a quality below the average fertility. The jumma, therefore, though it should be raised, should not be so high as the second estimate would appear to indicate. Next let us take Nizampore (jumma Rs. 600). I., 841; II., 1240; III., 1205; IV., 1168; V., 1205. Here again the nikasee estimate fails us, but the others keep well together. The estate is of fair fertility, and is known to have borne the jumma well; the obvious inference being that it should be retained; the mean of the estimates, if we reject the first, being 1,204.

- 18. Assessment of Pergunnahs.—On the subject of assessment generally I have still much to say, but fear to trespass too long on your attention and that of the Board. A few general observations will be found at the conclusion of this report; but it is thought better in this place to say no more until some detailed account shall have been submitted of the way in which the assessment of past and present liabilities has been dealt with in the pergunnahs of which the prescribed statements are annexed.
- Boorhana. The first of these is Boorhana, a small division situated at the confluence of the Kalee and Hindun Rivers, at the extreme south of the district. This pergunnah formed part of the principality of Sirdhana, and was settled by Mr. Trevor Plowden when it lapsed to the British Government in 1839 by the Begum's death. It enjoys a soil in which kutcha wells can be sunk at small expense, and last many years, the water being about 12 yards from the surface in the upper, or bangur land, and not more than 8 yards in the khadir, or meadow land, which is also occasionally watered from the streams which it borders. Sugar, cotton, maize, and wheat are produced. The absence of bajra (Panicum Spicatum) indicates a good soil, and the marts of Sirdhana and Shamlee are accessible by good roads. The great drawback consists in the tendency of the drainage to cut ravines in its passage to two rivers, which gradually eat into the heart of the best lands. It is also to be observed that the rates on which Mr. Plowden based his assessment are rather high, ranging as they do from Rs. 2-6-5 to Rs. 6-6-5, especially as he took the full three-fourths for the Government demand. Hence almost of necessity it happened that many of the cultivators, and some even of the sharers in estates which were not adequately provided with wells, were unable to hold their own during the late protracted drought, which, as noted by Mr. Edwards, has prevailed ever since the disturbances of 1857 in

that part of the district. "So much so," adds that officer, "that the people have taken the idea into their heads that the locality is accursed, on account of their misconduct." Many of the refugees are still absent; while those who have returned are deficient in stock, in spite of the liberal aid administered by the Central Relief Committee, which was not adequate to the full extent of the evil. Above Rs. 15,000 were accordingly suspended, out of a total demand on the pergunnah of Rs. 75,148.

20. Assuming the Settlement Officer to have correctly estimated the rental assets (which, as above remarked, he perhaps a little over-rated), the value of the same on the present area, and with an allowance of 25 per cent. for rise of prices, would be about Rs. 1,41,100. As shown by applying Mr. Thornton's averages, and the ascertained zubtee rates, it is Rs. 1,36,385. Taking the latter as the basis of a pergunnah jumma, I obtained an average revenue rate of Rs. 1-14-11½ on the cultivated, and Rs. 1-9-5½ on the total malgoozaree, area; and in practice it was found that nearly half the estates were assessed at this average. Of the remainder, 13 went above, or at an average of Rs. 2-11-0 and Rs. 2-5-0 respectively, while only 10 were rated lower, or at a respective average Estates. Proposed Jumma. of Rs. 1-8-0 and 1-3-0. The loss to Government is upwards of Rs. 70,261 0 0 Rs. 5,000, but more than a third is due to the single estate of Jaola, which Mr. Edwards acknowledged to be over-assessed, and in regard to which I had the rent-roll to guide me, as it is wholly let on tushkhees.

The variations noted were essential, and for the most part natural, and will be found briefly accounted for in the miscellaneous general remarks, and more fully in my English Pergunnah Book in the office. It will be found that I have also adverted, in a few instances, to the probable inability of an estate to bear the full new jumma for one, or perhaps for two years to come. This refers to the results of the drought, and to my unwillingness to forego the demand that I believed to be appropriate. At the same time I was aware of the strong objections attaching to progressive, or rusudee, assessments, and preferred, in such cases, to undertake the responsibility of some small remissions, until the estates should have time to recover their springs of prosperity. (The total amount of these proposed remissions is Rs. 1,921.)

- 21. I have nothing more to note regarding the assessment of this pergunnah, except that, in anticipation of the possible extension of canal irrigation from the Hindun, and from the projected Deobun branch of the Ganges Canal, the engagements have been made terminable in twenty years, as ordered by Government last year (G. O. No. 2561A., dated 1st June, 1861). The assessments were completed before the collection of the Khurreef kists; and hence, in this pergunnah, the period of engagement dates from the 1st of last July; giving, contingent on sanction, an immediate relief to the distressed estates.
- 22. The balances of the former jumma have been arranged for on the same principles, mutatis mutandis, as the assessments for that which is to come. The result is exhibited in the subjoined table:—

Balances	Requiring	Remissions	in	Pergunnah	Boorhana.
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Village.		Balance, past years.	Balance, 1268 Fuslee.		Proposed Remission.			Remarks,		
				Rs.	As.	P.	Rs.	As.	Р.	
1	Burkuta		l	485	15	2	74	4	6	The remainder payable in two fusls
2.	Bhowana	•••	1	189		ō	89	ō	ō	Rs. 172 of new jumma should be also
		•••			-		1			remitted in 1269 Fuslee.
3.	Atalee	•••		250	, 0	0		••		Rs. 125 in Khureef, 125 in Rubbee Rs. 230 of new jamma should be remitted this year, and the old jamma paid for 1269 Fuslee.
4.	Ooksolee			100	0	0	50	0	0	Rs. 50 in Rubbee, 1269 Fuslee.
5.	Boorhana	•••		1,300		ō	400	Ō	Ó	Remainder by Kistbundee.
6.	Bugeeana	•••		675		6	200	Ō	0	In two fuels.
7.	Toda	•••		400	-	Ō	200	Ó	0	Rs. 200 in 1269, old jumma being paid
8.	Jaola			6,110	Ō	0	2,250	0	0	The remainder in
9.	Jundheyree			225		0	1 '			By instalments.
10.	Hubeebpore		1		10	0	91	10	0	· ·

-	Village.	Balance, past years.	Balance, 1268 Fusice.	Proposed Remission.	Remarks.
			Rs. As. P.	Rs. As. P.	
11.	Hoseynabad (Bhumbara)		400 0 0		Rs. 200 in 1269, 200 in 1270 Fuslee, and jumma reduced.
12. 13.	Hosseinpore Rusoolpore (Dub-		847 7 5	•••	Rs. 147-7-5 in Khureef, 200 in Rubbee.
10.	heyree)	1	200 0 0		Half in Khureef; half in Rubbee.
14.	Racepore		100 0 0	100 0 0	Re 50 to be remitted out of jumms, 1269 Fuslee.
15.	Resolee Nugla		250 0 0	250 0 0	Rs. 306 of jumma, 1269 Fuslee.
16.	Surace		284 11 3	34 11 3	Rs. 200 in two fuels, 230 of new jumma should be remitted in 1269.
17.	Koorthul		900 0 0	450 0 0	Rs. 450 in two fusls.
18.	Koralsee		1,400 0 0	700 0 0	Rs. 700 in two fusls.
19.	Khurur		470 3 3	•••	In Rubbee, 1269 Fuslee.
20.	Mundwara		<b>25</b> 0 0 0	•••	Rs. 125 in 1269 Fuslee, 125 in 1270 Fuslee. Rs. 148 of jumma 1269 to be remitted.
21.	Nugwa		500 0 0	240 0 0	Rs. 260 in four kists.
22.	Waeelee		143 9 9		In two fuels.
23.	Mundaolee	•	,***	•••	Rs. 125 of jumma, 1269 Fuslee, should be remitted.
	Total	•	•••	***	

23. Gordhunpore.—In December, having completed these operations, and deputed a Deputy Collector to prepare the records of rights, rent-rolls, and administration papers, I turned towards the north-east corner of the district, where Nanuck Chund had been for some time engaged in preliminary observations. The necessary records having been first completed in Gordhunpore, that pergunnah was the next for assessment. It is an unhappy tract, cut on the east by the Ganges, and swamped on the west by the Solanee. Between these two rivers, however, is a patch of high land,—a sort of inverted oasis,—on which the best estates nearly equal the worst in the pergunnah last described. The whole is occupied, almost exclusively, by Goojurs; but they are of comparatively inoffensive habits;—only the same lack of energy which is shown in their crimes unfortunately also exhibits its effects in their cultivation. They have no want of water, but are otherwise badly off, and eke out a subsistence by selling straw for thatch, and by grazing herds of cattle, which pay a tax of four or six annas per head,—or per tail, as the phrase goes.

24. The natural features of the pergunnah divide it almost of necessity into

Estates.	Malgoozaree area, acres.	Cultivated area, acres.
I.—19	9,964	7,978
II.—18	8,490	2,744
III.—15	10,783	3,910
IV17	4,422	1,487

four circles, each containing a nearly equal number of estates, but in which the cultivation bears a varying ratio to the whole culturable area,—see the margin. The old rates were Re. 1-4-6 on the cultivated area, and 10 annas 9 pie on the total malgoozaree; but the new classification

elicited widely varying rates, viz. :--

I. V	aried on cultiv	vation 1	7	5 <del>1</del>	On Malgoozaree	•••	1	2	$5\frac{1}{4}$
. II.	"	1	1	2	"	•••	0	5	$6\frac{3}{4}$
III.	"	1	2	$3\frac{3}{4}$	"	•••	0	6	71
IV.	"	1	4	$10\frac{1}{2}$	,,	•••	0	7	$0\frac{1}{2}$

which were used as a standard in each circle, and only departed from for special reasons explained in the proper place. The two former circles are the "good" and "indifferent," only in a pergunnah itself entirely below par. The two latter demand more notice.

25. Class III. consists of estates some of which are periodically injured by the Ganges, while others are cut by tributary streams, which discharge a considerable

volume of water during the rainy season. The inroads of the latter can, I believe, be certainly checked by the construction of cheap and simple regulating works, which an Engineer could readily place at the most exposed points with a little aid from the villagers. I have erected a small experimental piece of crib-work under the inhabited site of Tonda Jelalpore, on which the current of the Bangunga had been setting with some strength. The action of the Ganges is similar, though of course more formidable. It cuts away the lower parts of the scarped bank, and as soon as these are undermined, the cultivated surface falls into the river, to be re-produced on the Bijnour side in the form of barren sands. This also, as I cannot but think, could be dealt with, though the breakwaters must be on a larger scale than those required for the treatment of the tributaries. The total area subject to this species of decrement is, however, very small, and has not therefore been made the subject of special settlement, though the circumstance has probably a depressing effect on the whole condition of the estates and people.

- The swamp circle (IV.) is still more amenable to remedial treatment. Simple drainage is here needed; and I have en-Circular P. P., dated 17th October, 1856. tered, meanwhile, a condition in the engagements, founded on the instructions noted in margin.
- The second section of the orders referred to provides that when any considerable tract is liable to fertilization from fluvial deposits it shall be treated separately, and, in the event of its becoming fertile, subjected to the ordinary rules of settlement as alluvion.
- The tract referred to will become fertile whenever the demand for agricultural produce and the redundance of the labor market shall render it worth the while of the Malgoozars to reclaim it by draining. Accordingly, a clause has been introduced into the engagements, by the consent of the Malgoozars, to the effect that, whenever such lands shall become fit for cultivation, they shall be liable to assessment according to the rules for alluvial accretions. The Malgoozars further expressed their willingness to drain the lands at once, if the Canal Department would furnish them with correct levels; such lands, 343 acres in all, are entered as "Minhace" in the papers of the estates to which they belong, being at present incapable of bearing so much as one crop in the course of the year; it being found, in regard to the remaining lands, that though the winter sun is not of sufficient power to dry them, or to fecundate the seed for a Rubbee crop, yet (in seasons of late and scanty rain-fall especially) they produce a rather good quality of rice, known locally by the name of "Moonjhee." Such land is of course culturable, and sometimes was measured and recorded as within the cultivated area, though a want of labor and of energy probably keeps the landholders from availing themselves of this somewhat precarious resource to the fullest extent possible. It is a speculation to sow even rice in spongy

* The measurements of the whole pergunnah only show 339 acres of irrigation, being on the high lands in the Gordhunpore Circle.

land, where any redundance of water will surely swamp it; yet it is matter of sincere regret to see many thousand acres of fine soil, quite independent of artificial irrigation,* subject to great and growing

deterioration. Till lately, the Solanee flowed down the backbone of the pergunnah, but has now found a lower and more direct channel in the land already swamped by

† Minhaee land at settlement, acres

Ditto at present, 2,212.

Otto at present, 2,212.

(There is also a great deal of land deteriorated; that is, it only bears one crop, and that a poor one, during the year. But as it is not entirely barren, it has not been thought necessary to exclude it from assessment or record.)

the percolation from the Ganges Canal; and the swamps in that chuk are steadily increasing their area.† An attempt made by the people of Nanoopore to run off the surplus water into the Solanee failed, from want of due levelling, and the water of the Solanee is said to have poured back, on the contrary, into their lands, where it enhanced the evil: however

this may be, I have myself seen the abandoned cut. This readiness of the people is, however, a hopeful sign; and I trust they may obtain correct levels and instructions from the Canal Department, which may not only check the evil, but lead to the reclamation of land now swamped. They will be prepared to pay an enhanced revenue at their present rates, on such land being added to their cultivated area in a ratio above 10 per cent. Meanwhile, though due relief has been given where needed, the

* Present jumms Proposed ditto ... Rs. 19,623 approved, will not fall short of what has been hitherto realized; while the increase of the cultivation (from

15,447 to 16,000 acres) has caused the rate on cultivation to fall from Rs. 1-4-6, previously noted, to 1-3-7\frac{1}{2}. Deputy Collector Nanuk Chund estimated the jumma at Rs. 21,000 (from which I obtained the standard rates given above), and the small difference between my total and his is due to the modifications I found occasion to make in particular cases. The following are the arrangements which I would propose in regard to the balances in this pergunnah:—

Village.	Balance, past Balance years. Fusl	, 1268 ec.	Prop Remis		Remarks.
	Re As. P. Re As	s. P.	Rs A	s. P.	
Idreespore	44	0 0		0 0	
Badshahpore	212 0 0		212	0 0	
Backoontpore	64 18 6		64 1	3 6	
Jheewurheyree			•••	•	Rs. 61 to be remitted in 1269 on account of swamp.
Chukheyree	1	8 0	1	8 0	I
Dadoopore	42 12 0		42 1	2 0	
Kowulpore				• ,	Rs. 15 to be remitted in 1269 on account of non-produce.
Mahpore	24 0 0		24	0 0	Jumma reduced on account of swamp.
Morabeyla	79	0 0	79	0 0	Ditto.
Nuroo Muzra	37 0 0		37	0 0	Ditto.
Total	380 9 6 124	8, 0	505	1 6	

29. Shoron Shikarpore.—In this pergunnah of Shoron Shikarpore there are 59 estates, of which 24, forming part of the old Sirdhana Jagheer, were settled by Mr. T. Plowden, and, I presume, on the same principles which he adopted in Pergunnah Boorhana.

Another portion, including the whole of the Trans-Hindun estates, was settled by Mr. H. M. Elliott, whose method is described in the same report which contains Mr. Plowden's narrative, and which has been lately reprinted and circulated by the Board. The remainder were part of the charge of Mr. E. Thornton, who settled the greater portion of this district, as set forth in his report, also lately re-produced.

Few peculiarities call for detailed notice. It will be remembered that all the tract between the Kalee and Hindun Rivers is at present dependent on the seasons for its supply of water. About three-fourths of this pergunnah are included in this tract, and on this, if on no other account, an increase of revenue is hardly to be looked for. But inequalities, whether previously overlooked, or only of recent occurrence, would necessarily demand adjustment. Variations from average of fertility would be mostly what they were at settlement, and due allowance would have been usually then made. But I think that undue regard may sometimes have been had to other and more easual variations, and this I have attempted in some degree to modify. As to soil, it is to be observed that some part of the Cis-Hindun tract is crossed by a bhoor, or belt of sand hill, which adds to the already noticed absence of canal water,the further disadvantage of poverty of soil (and impossibility of sinking earthen wells) as far as it extends. In other parts, however, the soil is of excellent quality, except that near the rivers it again becomes poor, and is so uneven as almost to deserve the title of "hilly;" but it is mostly tilled (as is also a good deal of the bhoor), and produces wheat, barley, and bajra. The khadir land also contains the fossil alkali known as reh, the presence of which the people whose estates border the Kalee Nud-

dee attempt to attribute to the tailing into that stream of escapes and rajbuhas from the Ganges Canal on the opposite side. This explanation, however, I strongly doubt, for I have found the substance at a depth of six feet below the surface, the upper stratum being quite free; and I know of no reason for disbelieving that the Kalee is itself a medium for its deposition. If it were the canal that, for the first time, brought down the reh, it would, I think, only be found in recent and superficial layers, the main canal having only been opened in 1854. The khadir fields are also secure against drought; indeed, some of them are swamped, like those in the Solanee khadir, during the present season. But they produce crops of sugar and rice, which, though of inferior quality, and paying a lower rental than bangur crops, are not precarious. The upper country, in the hands of Jats and Tuggas, yields excellent crops of sugar, wheat, cotton, and joar. The assessments, too, have on the whole pressed less heavily than in some parts of Boorhana, and the rates on which the old jumma of the pergunnah falls on the cultivated and culturable area may still be taken as a fair standard, being, respectively, Rs. 2-4-3 and Rs. 2-0-2. Undoubtedly there is a difference between the circumstances of the Cis-Hindun, or Shoron Proper, and the Trans-Hindun, or Shikarpore tract; and this calls for some discrimination in distributing a pergunnah jumma. The tract beyond the river is not free from ravines, but it has them only on one side, instead of on two sides; and not only has it no bhoor belt, but it has a considerable share of canal irrigation. It has the further advantage of having been all assessed by one, and that a very able, officer (the late Sir H. Elliott), while the malgoozaree communities are almost exclusively industrious and thriving Jats. Whether any further development of irrigation is to be expected I am not aware; but as I know that a survey is on foot, with a view to the feasibility of a cut from the Hindun, on this ground, as also for the sake of uniformity, I have taken twenty years as the minimum period of all the engagements. I do not, however, feel justified in reckoning on any very certain extension of the capabilities of estates in this neighbourhood. Their resources are great, but they have been fully taxed, and the absence of confidence in their increase appears to preclude any general increase in their taxation.

31. The margin shows the rates which have been chiefly used in the Cis-Hindun

Shoro	rates.
Irrigated.	Dry.
2 14 0	1 6 0

or Shoron tract. This rate is the result of experience, and compares well with the calculations obtained by the means indicated above. In second-class estates, however repugnant to abstract ideas, it has been sometimes absolutely unavailable to frame a lower rate before this conformity

Shoron 2nd Class rates.						
Irrigated.	Dry.					
2 8 0	1 2 0					

could be obtained; and special remarks will be found in the appropriate place. great pains have been taken to look as much to essential variations, and as little to those which were accidental, as the nature of things permitted with which I had to deal. Above every other consideration, that of permanency had place; it being hoped that the Board and Government

would be pleased to think that, where no imperative reason for change was shown, existing obligations should be as little as possible disturbed, and the advantages of a perpetual settlement, as far as possible, secured. No jumma has been subject to such an enhancement as would be likely to be thought frivolous or vexatious by the people; but where Mr. Edwards' recorded opinion in favor of substantial increase was corroborated by an ascertained large development of cultivation, and by the admitted or obvious prosperity of the Malgoozars, in such, and in similar cases, a fair rateable addition to the demand was considered a just protection of the public interests committed to

* D. S. O., paragraph 65. Governor* has been ignored as much as its persistent recognition by all classes of the native community would permit. Not only in this, but in most pergunnahs that I have had to deal with, I have found officials recommending high assessments on particular estates, simply and solely because they were held by wealthy individuals or by industrious tribes; while the Malgoozars, for their part, lay great stress on their want of capital and other personal disadvantages. Each class seems disposed to regard the land revenue as a kind of Income Tax, rather than what it really is, the landlord's rent. Doubtless the hereditary claims of the Malgoozars form a source of sentimental influence which is hard to resist, but it cannot be indulged beyond the limits imposed by the alternative necessity of allowing a malikana. Otherwise we must, by parity of reasoning, be driven to place an exorbitant demand on estates when they happen to be held by persons of more than usual energy and enterprize, which is equivalent to the manifest absurdity of treating penally the exhibition of merit and resource. Hence, in the Shoron sub-division of this pergunnah, I have sacrificed many small increments which were recommended to me, having re-

* Vide Circular I., Section 4, paragraphs 91 to 97.

gard to the "casual variations" of Mr. Birch.* On the same principle, palpable idleness on the part of the proprietary body has not been held to constitute a claim

to indulgent rating. This subject will be noticed again, under the head of "General Observations," when I come to notice the habits of the various tribes which are most prominent in the agricultural population of the district.

32. Shikarpore.—The Shikarpore portion of this pergunnah, as already remarked, is separated from that of Shoron by the Hindun, a deep river with steep banks; and I have lately had the honor to submit a special suggestion that it be thrown into the Trans-Hindun part of the Boorhana Pergunnah, whose Cis-Hindun villages, on the other hand, might be added to Shoron. In the meanwhile, besides other conditions noted above (paragraph 29), its chief feature is the possession of canal irrigation; the

Ulawulpore. Moondbhur. Sissolee. Bhowra Kulan. Ditto Khoord. Shikarpore.
Jeytpore.
Gurhee.
Ghufoogurh.
Mahomudpore.

ten villages noted in the margin being under the influence of a rajbuha from the Eastern Jumna Canal. Mr. Elliott's assessments, though fair according to the rules in force at the time, do not leave to the Malgoo-

zars, in all cases, their full moiety of the profits; nor is there in general much capacity of farther development in these estates. Rs. 3-10 has been used as a standard rate on irrigated, and Rs. 1-8 on dry, cultivation. The subjoined memorandum exhibits the way in which it is proposed to arrange for balances (some of which, it will be observed, Former jumms, Rs. 1,05,109. have accrued in estates ordinarily watered by canal, though Present jumms, Rs. 1,03,261. the supply ran short during the late droughts):—

	Villages.		Balance, past years.	Balance, 1268 Fus- lee.		Proposed Bemission.	Remarks.
				Re- As. P		Re As. P.	
1. 2. 3. 4. 5. 6.	Unchoura Bhoura Kulan Busdhara  Pooruh Jeytpore Khanpore			289 10 0 570 12 0 100 0 0 21 0 4 122 13 5	0 0 0 4 2	 570 12 0 100 0 0 50 0 0	Deficiency of produce. Ditto in two fusls. Ditto and over-assessment; Re- 227 of new jumma to be re- mitted. Deficient produce. Ditto two fusls. The remainder in two fusls.
7. 8. 9. 10. 11. 12. 13. 14. 15.	Dhundaolee Saotoo Shikarpore Comurpore Kumalpore Kheyree Soondean Gurhee Noabad Mahomedpore, Roy Sing Mundaolee Hulolee		::	25 9 1 597 5 6 160 15 6 64 8 6 55 8 6 49 4 6 800 0 6 83 3 6	0 1 0 6 0 0 0 6 6	50 0 0 150 0 0 0 55 8 0 400 0 0 83 3 6 200 0 0	In fuel rubbee. In three fuels. Re 10-15-6 to be collected. The remainder to be realized. In fuel khureef. Re 400 in two fuels. Re 676-9-6 in two fuels.
	Total Re	•••		8,967 11	1	1,709 7 6	

- Bedolee.—The condition of this pergunnah has been so fully described by Mr. Colvin that I have thought it right to let him speak for himself, by annexing the report with which he has favored me; and it is due to him to mention, once for all, that, beyond concerting general principles, and consulting with him on any special points that arose, I have not interfered in the assessment.
- It will be seen from Mr. Colvin's Report that he has paid very great attention to acquainting himself with the peculiar conditions with which he had to deal. He has indeed spent a considerable part of the last two seasons in the pergunnah.
- The 2nd Appendix to his Report shows that the disadvantages under which the pergunnah at present labors have an effect on the rates of profit as indicated by the decrees of the summary-suit file during three years ending 1266 Fuslee. The produce of wheat, barley, and gram was about 30 per cent. below what Mr. Thornton had established as the average yield throughout the district; the "zubtee" rates are This being so, he might have preferred not to take Mr. Thornton's average produce rates as the basis of his assessment (as explained in his 12th and 13th paragraphs), but that he was aware that, not only was a development of the produce to be looked to from an extension of the area of tillage, but the 1st class of soil (locally called "meesun") would be largely increased whenever the people chose to apply to the "rouslee" a portion of the manure which is so plentiful in this pastoral tract of country. The soundness of his judgment is evinced by the fact that, although he has secured to the Government some share in the prospective capabilities of these depressed estates, he has given general satisfaction to the Malgoozars. That the pergunnah jumma has considerably decreased is chiefly owing to the action of saline efflorescence, whereby the total malgoozaree area has been curtailed; while to this reduced area he

Present jumma.	An old malgoo- zaree rate.	Proposed jumma.
Rs. 42,656	Rs. 40,131	Rs. 28,838

Balance of past	Balance of 1269
years.	Fuslee.
Rs. 10,032	Rs. 32,128

Proportion of wells to cultivated area in acres, 1 to 20; besides meadow land in the Jumna Khadir

Years, Fuslee.	Crop, maunds.	Value.	Zubtee.	Total.
1265, 1267,		Rs. 27,192 23,512	Rs. 16,078 16,126	Rs. 43,270 39,638

has still been led, by the circumstances explained in his paragraphs under notice, to apply a reduced rate, vide the marginal statement. — It must not be omitted that the present jumma is quite nominal, and that the balances indicated in the margin exist to show how heavily it has lately been pressing; and this is to a great extent independent of the late droughts, which, owing partly to the scanty population, and partly to the fact that there is scarcely any cultivated land that is not dependent on the vicissitudes of the seasons, did not bear severely on this pergunnah. The annexed table shows that the whole difference between the produce of the pergunnah in an average year and in a

year of drought was not 8 per cent., and that chiefly attributable to emigration.

36. It only remains to add that, in uncertainty as to the feasibility of the cut from the Jumna to which Mr. Colvin adverts in his 4th paragraph, it has been thought right

to introduce a period of twenty years into the engagements, as has been done in Boorhana and Shikarpore. The words equivalent to "or till further orders" being added, the Government is at liberty to continue the arrangement as long as it may think fit; but should irrigation of this kind be extended into the pergunnah, Government will likewise be at liberty to make fresh arrangements ten years sooner than had the usual period been adopted.

Subjoined is a list of balances and proposals regarding them.

	V	ill <b>ag</b> e.		!	Balance, past year's.	Balance, 1268 Fuslee.	Proposed Remission.	Remarks.
					Rs. As. P.	Rs. As. P.	Rs. As. P.	
1.	Oodpore		•••			27 11 0		
2.	Undherah	•••	•••			168 0 0		
3. 4.	Oadree Ushrufpore	•••	•••	•••	6 3 0 399 5 0	243 0 0 450 0 0	450 O O	•
5.	Oalahnee	•••	•••			348 0 9		
6.	Bhuttee Muzra	***	•••			69 9 6		
7.	Bhurree	•••	•••	•••		1,306 12 0	65 6 12	
8. 9.	Bhogee Muzra Bulla Muzra	•••	•••	•••	75 7 3	222 11 3 650 0 0	845 0 0	
10.	Bhao Muzra	•••	•••	•••	90 11 3	450 0 6	252 0 0	
11.	Bullaedeh	•••	•••	•••		604 0 0	216 0 0	
12.	Bedolee	•••	•••	•••	43 13 3	1,883 1 9	942 12 0	
13. 14.	Beena Muzra	•••	•••	•••		340 0 0 132 14 0	***	
15.	Tissung Chuttaelah	•••	•••	•••		446 9 3	189 0 0	
16.	Jejouleh		•••		22 7 3	675 0 0	907 0 0	
17.	Julalpore	•••	•••	•••	1 15 0	185 0 0		
18. 19.	Chousens Bure	 	de la cont	•••		37 11 9 4 <b>39</b> 15 6		
19. 20.	Chousana, Bure Chousana Lahor			•••		1,197 11 3		
21.	Qhuajpoorah		•••			225 8 0	102 0 0	
22.	Duburkee	•••	•••	•••		380 0 0	380 0 0	
23.	Dhakwala Dilamanah	•••	•••	•••	•••	258 0 6 191 13 3	68 12 3	
24. 25.	Dilaweruh Donkpoora	•••	•••	•••		136 0 0	•••	
26.	Dubheyree Boo		•••	•••		175 0 0	175 0 0	
27.	Rusoolpore		•••	•••			,	
28.	Raepore	•••	•••	•••		200	•••	
29. 30.	Ruttond Sukhotee	•••	•••	•••	104 6 3	400 0 0 602 4 0	•••	
31.	Sectul Gurhee	•••	•••	•••		783 0 0	•••	
32.	Seengrah	•••	••• ,	•••		200 0 0	• •••	
33.	Soobree	•••	•••	•••		44 15 9	***	
34.		•••	•••	•••		387 14 0   282 0 0	•••	
35. 36.	A ========	•••	•••	•••		414 13 6	248 0 0	
37.	Trett changes	•••	•••	•••	26 8 9	420 0 0	208 0 0	
<b>3</b> 8.		•••	***	•••	106 8 9	350 0 0	350 0 0	
<b>3</b> 9.		•••	•••	•••	37 15 6	36 0 <b>6</b> 476 0 0	***	•
40. 41.	Valannina		•••	•••		291 3 0	147 0 0	
42.	Vamalaana	•••	•••	•••		185 10 0		
43.	Kertoo	•••	•••	•••	<b>.</b> `	362 15 6		
44.		 	***	•••	•••	583 14 0	804 0 0	
45. 46.	Kheyree Zoonna Goojurpore	raar	•••	•••		203 0 0 180 1 9	:::	
<b>4</b> 7.	Laloopoorah Ru			•••	35 10 9	708 0 0	354 0 0	
48.	Munglourah		•••	•••		216 10 0		
<b>49</b> .	Moostafabad	•••	•••		92 2 9 2 5 0	1,716 0 0	1,716 0 0	
50. 51.	M	•••	***	•••	2 5 0	816 0 0 858 0 0	483 0 0	
52.	Moondee Gurhe		•••		:::	875 12 0	671 12 0	
53.	Nae Nugla	•••	•••			253 7 6		
54.	Mariana	•••	` •••	•••		621 0 0	621 0 0	
55. 56.	37	•••	•••	•:•		388 0 0		
56. 57.	Yaheapore .		•••		•••	431 8 0	:::	
58.	Yoosufpore, July	lpore			8 15 0	1,000 0 0	469 0 0	
<b>59</b> .	Shapore Muzra		ore		85 4 3	255 6 0	225 6 0	
			Total Da		1190 11 0	95.499 9 6	0011 6 0	
			Total Rs.		1,139 11 0	25,438 8 6	9,911 6 3	

There are no other pergunnahs of which the papers are sufficiently forward to enable me to submit the prescribed statements with this report; but all, with the exception of Kandla and Jansuth, are in hand, and seven pergunnahs can have their new jummas fixed in time to date from the beginning of the new agricultural year, or 1st July, 1862,—being completed, at latest, before the collection of the November and December kists.

Of these, the most advanced are the following:—In Thannah Bhowun, Mr. Colvin's proposed jummas are nearly ready; the total result for this pergunnah is roughly shown in the margin, being a decrease of Rs. 2,684, chiefly caused by the introduction of the half-asset principle.

The same officer has inspected the whole of Jhinjana, and will be ready to give out the jummas of the estates very shortly.

Churthawul is not so far forward, but the jummas will be ready by July, as will also those of Mozuffernugger and Bugra,—the papers, with notes by myself and others in the English books, having been made over to Mr. Grant on his joining (1st March). But I would wish the question to be carefully weighed, whether the two Pergunnahs of Bugra and Churthawul are not in too depressed a condition to justify the hope of a satisfactory settlement for a long period being at present effected. The emigration has exceeded 10,600 souls, as shown in the margin, and, though this

Population.						
	1265 Fuslee.	1268 Fuslee.				
Bugra	40,733	87,046				
Churthawul	84,542	27,797				

is not an emigration of the agriculturists alone, yet it is so for the most part, there being nearly as many agriculturists as

non-agriculturists in the pergunnals referred to, and the emigrants having been often known to have gone in search of agricultural employment in more favored localities. At this moment, the traveller, in passing through the tract of country referred to, cannot fail to be struck with the wide-spread desolation of the villages, and the desert aspect of what once were fields. When it is borne in mind that this is perhaps the very most fertile tract in the district, and that its resources are likely to be eventually secured by the Deobun branch of the Ganges Canal, it will be seen how important is the question I have raised. For my own part, my humble opinion is in favor of limiting the period of the present settlement in Bugra and Churthawul to a period of five years; and I think it possible that a careful purtal of my shujras and khusras at that time would provide for the due representation of the changes that might meanwhile occur in the area of cultivation.

The Pergunnah of Poor Chupar has been inspected by the Uncovenanted Deputy Collector, Raee Nanuk Chund, whose estimates of jumma are ready for scrutiny and confirmation. That of Bhokurheyree is not quite so forward, but the pre-assessment records are completed.

In Kyrana and Bhooma the survey is nearly finished, and in Shamlee and Khutaolee it is well started.

Thus progress has been made, with which it is hoped the Board and Government will be pleased. Five pergunnahs are assessed, and the record of rights is on foot. Three more are on the verge of completion; and of the remainder—less than half the district—there are but two pergunnahs in which considerable advance has not been made, and even in those two the boundaries have been fixed, and all is in readiness for the commencement of the survey in October next. More progress might perhaps have been made even than this, but for an unfortunate misunderstanding about the estimate, which, having now been cleared up, does not seem to call for further reference. And what has been done has been done at a time when, with failing strength and impaired eyesight, I was bearing the additional burthen of the Income Tax, and could never have been accomplished but for the intelligent and generous aid of my subordinates and the support of yourself and the Board, all which I desire gratefully to acknowledge. Of Mr. Colvin's merits I have often spoken before; the value of his aid and that of Deputy Collector Nanuk Chund will also be seen from these pages. The Covenanted Deputy Collector, Mr. W. Lane, has been uniformly obliging in testing measurements and recording information.

Thus far the result of the new proposals of assessment has been such as to cause a decrease of net revenue* amounting to about Rs. 20,768-8-3. But it is to be borne in mind that, of these four pergunnahs, two

* Pergunnah.	Present.	Proposed.
	Rs. A. P.	Rs.
Boorhana	75,010 8 6	70,261
Shikarpore	1,06,109 1 0	1,03,261
Gordhunpore	19,503 0 0	19,748
Bedolee	42,254 3 9	28,838
Total	2,42,876 8 3	2,22,108

were in a depressed state,—Bedolee and Boorhana,—and all were dependent on the vicissitudes of season. In regard to such tracts the observations of His Honor the Lieutenant-Governor of these Provinces have a special weight. "In many of the districts, it is likely that the application of

the liberal rule of settlement at half assets will, to some considerable extent, affect the revenue."* It will remain for my successor to see whether the increased capabilities of estates which have come under the influence of canal irrigation since

* Vide General Report on Administration, 1859-60, Section V., paragraph 104.

the last settlement will not at least fill up the gap caused (I submit inevitably) by my proceedings. From a statement with which I have been favored by

Major Brownlow, I find that the irrigation has much more than doubled since last

Average for the years 1839-40 and 1840-41.	Average for 1850-51 and 1851-52.	Average f o r 1858-59 and 1859-60.
Acres.	Acres.	Acres.
22,205	37,615	58,615

settlement on the Eastern Jumna Canal. But it is on the eastern side of the district that the greatest contrast will be found to exist between the past and present. The Pergunnahs of Poor, Bhokurheyree, Mozuffernugger, Jansuth, and Khatoulee are now nearly covered by a net-work of rajbuhas, the oldest of which has not been

running more than six years, and of which the result will be to increase enormously both the stability and the amount of the Malgoozar's resources. In the Appendix to Mr. Thornton's Report (No. 3) will be found a statement in which is given the result of his own personal appraisement of the three chief spring crops. I have obtained

	Wheat.	Barley.	Gram.
Mr. Thornton	8 39	7 7 <del>2</del>	6 11 0
Major Brownlow	19 0	20 0	15 0 0

from Major Brownlow an appraisement of crops produced on lands irrigated by his canal, from which I extract the corresponding entries.

In a demi-official communication called for by the Senior Member of the Board last year I went at some length into this question; and the result of all the experience I have since gained is to confirm me in the opinion that the rates on lands watered

† In regard to some of the effects of the Ganges Canal in this district, ses Sir P. Cautley's printed Report, Vol. I., p. 450. by canal may be safely pitched at double what it would be—other things being equal—on land watered from wells.†

But the question then arises, how is it to be expected that the Malgoozar will overlook the very obvious prospect of advantage held out to him by the option he has of not availing himself of canal water till the assessment for thirty years is concluded? An assessment, moreover, which there is some possibility will be made permanent. know of estates at this moment where the Malgoozars will neither take water during the current season, nor allow their tenantry to do so; because they know that the settlement survey is coming on their way, and they hope that their land will be entered as "baranee," or dependent on rain, whereas it is commanded by a rajbuha running on a high level, which will pour its fertilizing waters over the whole area as soon as the jumma is fixed. I submit that the Settlement Officer's duty in such a case is clear. After verifying, by communication with the department, the extent capable of irrigation, he should assess it precisely as if it were all entered in his records as "irrigated," for his jumma is to be fixed with regard to the expected capacity of estate "during the period of settlement"—vide Directions to Settlement Officers, paragraph 53. Whether the proprietor may pay the canal dues, or whether they are paid by the cultivator again, does not appear to affect the question of the value of the assets, any more than the question whether water is or is not taken at all. It is true that, on the supposition that the rent is paid in kind, the practice of holding the tenant responsible for the water dues, while the landlord receives his share of an enhanced crop in whose enhancement he has had no share, is alike opposed to abstract * Act X. of 1859, Section 17. justice, and to the spirit of the Rent Laws.* It is equally true that the asamees may well be in doubt whether the letter of the law is sufficiently clear to justify them in resorting to it for redress; and the result of their doubts may be a further check on the development of irrigation. The remedy might be provided by a clause in the wajib-ool-urz, by which it should be provided that the cultivator and the Zemindar should be jointly and rateably responsible to the Canal Department for the water dues. But the best plan, in my opinion, would undoubtedly be the following:—

I would get the Superintendents of Canal Divisions to take a wash of blue over that part of the shujra* of each estate which represents the minimum of constant irrigation, and which should be assessed as such once for all. I

would then direct the putwaree to note in the jummabundee of each year, opposite each of the remaining fields, if it had been irrigated during the year. The extra irrigation thus shown would be a varying quantity, and would be liable, after having been tested here, or in the Canal Department, to enhanced rates, both of rent and revenue, according to the terms of the settlement. The enhanced revenue would all be paid to the Collector; the increase on the settlement demand caused by canal irrigation being shown to the credit of the Canal Officer, while the enhanced rent would go to the Malgoozar. Thus if an asamee held an acre of land on which he grew sugar at Rs. 18 per acre, and two acres on which he grew crops of which he gave a moiety valued at Rs. 5 in an ordinary year, the revenue would be Rs. 11-8, and the rent Rs. 23. But if he took canal water in any particular season, both of these rates would be increased, † Vide Cautley at supra, pages 427 according to the settlement rule, by Rs. 50, Rs. 75, or Rs. 100† per cent., as might have been previously

determined. These difficulties are chiefly felt in estates held by non-cultivating indi-

Tribes. Pergunnah. Chief Tribe. Second Tribe. Bedowlee, Goojur, Kyrana, Goojur, Puthan. Miscellaneous. Jhiniana Jât. Thaunah Bhowun, Miscellaneous. kajpoot, Shamlee, Ját, Rangur. Goojur. Kandla, ... Jât. Rajpoot. Miscellaneous. Tugga, Churthawal, ••• Bugra, Jât, Tugga and Jat, Shoron. Puthan. ... ... Boorhans, Rangur and Puthan. Goojur, all but uni Gordhunpore Bhokurheyree, Jât, Sheikh and Goojur.

viduals. The proprietary bodies are distributed through the district according to the marginal table, showing the tribe of first and second preponderance in each pergunnah in which the rights are chiefly held by

cultivating communities. In the remaining pergunnahs zemindaree tenures are frequent, and are held either by Syuds of ancient family, or by capitalists for whom they have made room under the combined action of their own mismanagement and an efficient system of Civil Justice.

Of the proprietary bodies, who hold the greater part of the land in their own cultivation, the Jâts are by far the best. The same habits which raised this tribe to sovereign power in the Punjab and in Bhurtpore, are shown here in the more peaceful conquests of rural prosperity. Their villages are neat and clean; every zemindar's house plastered, and has an ample doorway, more or less ornamented with carved wood; their pucka wells are in repair, and wherever they can, they are apt, to sink temporary wells with carefully made wooden framings, which last many years. This class I would always assess according to their assets; nor will they be found to complain, so long as a special addition be not made, as native officials will always advocate, for which no other ground can be shown but that they are Jâts.

At the opposite pole will usually be found the Goojurs, a wild, untidy, thriftless class, unfit for the exercise of proprietary functions. The character of the western Goojurs has been well given in Mr. Colvin's Report on Pergunnah Bedowlee; those to

Shara' n and a control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro

the castward are of the gentler race (Got), and are favorably influenced by their prosperous brethren of Landhoura; their chief faults are want of energy and of skill. The Rangurs again, and other lower classes of Mussulmans, are usually remarkable for a complete distaste for agricultural operations; and where they prosper, it may be said to be in spite of themselves. In my remarks on Shoron, I observed that such habits constituted, in my opinion, no claim to special indulgence. On the contrary, it will sometimes be found that land held by persons who never give it manure is so far benefitted that it has not exhausted its powers with the more expensive crops. A fair jumma cannot, it is true, be paid by the present owners; but it does not necessarily follow that they will lose their rights. The baser sort may, and I shall not consider it an objection to my principles of work if they do; for I think Rangurs and Goojurs are more in their place as tenants and servants than as Government Malgoozars. But the Puthans, and, indeed, some of the others, will let out the greater part of their land in farms of greater or less extent; and thus a provision will be obtained for the redundant population of neighbouring estates, many of whom (especially the Jats) are prone to overflow wherever they can find land.

There is a class of tenures, however, on which it may be necessary to obtain definite instructions. I refer to what is called the Shurh nugdee,—the meaning of which is that a certain fixed rate is laid down in the khuteonee, and as long as this is paid, the Malgoozar is only entitled to a deduction, in the way of malikana, usually of 18 per cent. This closely resembles a Talookdaree tenure as described in the 99th paragraph of the Directions to Settlement Officers; but it does not satisfy the so-called proprietors, who see the estate advancing in prosperity, while of that prosperity they enjoy no share. I have not dealt with any of the pergunnahs in which this custom exists, but I question the propriety of maintaining it. The provisions of Act X. of 1859, Sections 13, 14, and 17, appear applicable to cases of the kind, unless we allow them to be barred by a renewal of the old settlement agreement; and to this the proprietors would, I believe, almost universally demur. A list of the 35 estates, or parts of estates, to which the above remarks apply will be found appended. The Malgoozar has the right of charging 5 per cent. additional in the event of any cultivator withholding the prescribed payment; but I suggest that they should be left in all respects free to make any arrangement that may not be incompatible with law for the future. The arrangement may have suited all parties at the former settlement, but it is a bad one in itself, and I think it has been in some measure the cause of the distress which has been felt during the late droughts; it certainly has an obvious tendency to retard improvement, the cultivators seldom being in a position to lay out capital, and the socalled proprietors having no interest to induce them so to do.

List of Estates in Zillah Mozuffernugger in which the cultivators hold at fixed rates, and the proprietors are only entitled to a percentage on the demand.

PERGUNNAH CHURTHAWUL.

Mouzah Kuteysra, Dudheyroo Khoord, Akhlore, Kucholee.

PERGUNNAH MOZUFFERNUGGER.

Mouzah Mukheealee, Molaheyree, Lucheyra, half of Pucheynda Khoord, Megha-kheyree, and Chandpore.

PERGUNNAH BUGBA.

Mouzah Dhunsaeenee, Kanoonee.

PERGUNNAH BHOKUBHEYREE.

Sikundurpore, Belra, Nulheyra, Rahmutpore, Nirganjnee, Dareeapore, Kureyra, part of Uthaeen, and Dheeraheyree.

## PERGUNNAH POOR CHUPAR.

Kudhereea, Shakurpore, Racepore, Jojheh, Bhacensurheyree.

## PERGUNNAH KHATOWLEE.

Mutheyree, Negacen, Surdhun, Kheyree Tuggan, Doodaheyree, Lahora, half Mokpore, Bhacensee, Murh, Sutheyree.

I have thus reported all that has been done up to date, and trust that I have not trespassed too long upon your attention.

I have, &c.,

Mozuffernugger: 7

H. G. KEENE,

Collector.

# PERGUNNAH KANDLA.

This pergunnah was inspected in the cold weather of 1862, and assessed during the rains of 1863.

- 2. The pergunnah on the whole is not inferior to any in this part of the district, except, perhaps, Shamlee. The villages to the east of Description of pergunnah. the Hindun lie rather high, but the soil is naturally To the west, the villages between the Hindun and the canal are, next to the Kodanah Circle of Pergunnah Shamlee, the most fertile I have seen; while to the extreme west, the land, though inferior to the rest of the pergunnah, is on a level with the average of the neighbourhood. The cane in the best group of villages pays as high as Rs. 18 per acre, and the cotton Rs.7-8-0. The only higher rent-rates I know in this part are in the Kodanah Circle, where the sugar pays Rs. 19 per acre, and the cotton Rs. 10-5-0. But that circle is the best on this side the Kalee Nuddee. A road runs from Boorhana to Kandla and on to Kyranah, and another from Shamlee to Kyranah and on by Ailum to Baghput. This is the chief road in the pergunnah; grain, salt, and cane passing up it from and to the Saharunpore District. Kandla itself is not a trading town, but inhabited chiefly by a well-bred family of Sheikhs, and another of Moguls, both formerly maafeedars. There are, too, a good many Goojurs. Wheat is the chief crop grown, but tobacco has been lately taken up, and is found very pro-The chief easte in the Trans-Hindun villages are Goojurs, wonderfully transformed by the canal, and in some degree respectable themselves, though not the cause of respectability in others. They find agriculture more profitable than thieving, but they harbour Kahars and others who live by roguery, and are always ready to pass on a stolen buffalo, or foil the enquiries of a Police Officer. Among them are sprinkled a few Jats. The Cis-Hindun villages are occupied by Jats and Rajpoots. chief form of village, as usual, is Bhyachara, though, as will be presently mentioned, there are enough zemindaree villages to suggest a not unuseful comparison. canal irrigation in 1840 had been 15,060, as against 30 villages, and at settlement was by canal papers 30,575, as against 39 villages.
- 3. In Kandla, as in Kyranah, I could find in none of the settlement reports any mention of the assessment of the pergunnah as a whole. Detached villages were mentioned by Mr. Plowden and Sir H. Elliot, but rates and circles were not forthcoming. I believe the Trans-Hindun villages were settled by Sir H. Elliot, and the Cis-Hindun by Mr. Plowden. I made two fresh circles,—the Kandla and Purasowlee,—as marked in the map, and distributed the other villages amongst the Shamlee, Kyranah, Bangur, and Kodanah Circles. In the new circles I made new rates on the principles detailed in the Thanna Bhowun Report; and for the same circles I used also a set of summary rates used by Mr. Plowden in assessing similar and neighbouring pergunnahs, and to be found in pp. 238, 239, Vol. I., printed Settlement Reports. These I reduced to half assets.

The rates of the new circles then stood as follows:—

Meesun Meesun Rulee Roslee Dahur Dahur Bhoor Bhoor irrigated, unirrigated, asowlee... 3 6 0 2 15 0 2 7 0 1 13 0 1 12 0 1 4 0 0 12 0 0 10 0

					Irr	gate	<b>.d.</b>	Uni	rriga	ted.
					Re	Aв.	P.	Re	As.	P.
Cis-Kirsunnee		•••	•••	•••	2	8	4	1	4	2
Trans-Kirsunnee	•••	•••	•••	•••	3	9	9	1	12	6

These were applied, and the assessments made on the same rules as I observed elsewhere. The Cis-Kirsunnee villages were very Remarks on the assessment. unequally assessed, and the Trans-Kirsunnee mostly In the kusbeh, Sir H. Elliot, ever light on ex-manfeedars, very much under-assessed. and especially on Mahomedan ex-maâfeedars, had left quite two-thirds of the assets in their hands. Some other villages, for causes I could not ascertain, had been underassessed. Much as I raised the demand, I still left more than half the assets in the hands of the ex-masseedars, and they accepted the demand without hesitation. the demand on the mehal of Sheikhs was doubled, the rate only now falls at Re. 1-12-0 per acre, while in similar villages lying around it rises to Rs. 3-4-0 and Rs. 3-5-0. But these lands were the only means of livelihood of a respectable body of gentlemen; and, remembering the station they occupied, the expenses their position obliged them to incur, their social influence, and the useful character of their occupation (which is chiefly literary), I avowedly left them more than at half assets they could have strictly claimed.

Former and proposed demand.

The former demand was ... = Rs. 1,00,759
 At deduced revenue rates, = ,, 1,27,937
 Proposed demand ... = ,, 1,11,068

The difference between 2 and 3 is chiefly due to apprehensions of the result of a too sudden rise.

Rates of new settlement in circles

6. The rates in each circle, and on each caste in each circle, of the new jumma are as follows:—

	Oacı	ı wıc	io, or mic	non jun	ima aio as	ionows.—
			Malgooza	ree rate.	Cultivate	d Rate.
			Rs. A	s. P.	Rs. A	s. P.
Circle Kandla	•••	•••	2 6	9	2 10	3 <del>]</del>
Ditto Shamlee	•••	•••	2 6	03	2 8	11
Ditto Kyrana Bangur	•••	•••	1 5	9	1 9	01
Ditto Purasowlee	•••	•••	1 7	101	1 11	7
Ditto Kodanah	•••		2 8	111	2 13	31
Pergunnah	•••	•••	1 15	9	2 3	5
Circle Ko	andla.				Circle S	hamlee.
Rs. As. P. (14 villages) Jâts 2 12 5½ (3 ") Goojurs, 1 7 5½	2 15	112	, ,	) Jâts	Rs. As. P. 2 0 7 2 6 8	2 8 01
Circle Kyrana Bangur.	• •-	.,		rasosoles.		Circle Kodanah.
(1 village) Sances, 1 5 7} 1	6 10}	(6 v		- · ·		
(1 ,, ) Jats, 1 5 10 1			•		10 2 0 4	
(12 ,, ) Goojurs, 1 4 lT1 1	10 0	(2	" ) Ku	robs, 0 12	1 0 15	3
7. There were Lum	berdars	at	<b>s</b> ettlemen	t, who h	ave been re	educed to ,

7. There were Lumberdars at settlement, who have been reduced to and Putwarees, who have been reduced to. The highest pay is , and the lowest

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- 8. I had hoped before leaving the district to see the results of the various statements for this pergunnah; but, with the exception of the Transfer Statement, none have been yet completed. From that the small amount of transfers, and the high price at which they have been effected, will be seen, giving an index to the prosperity of the pergunnah. On the whole, it has been the most highly prosperous I have seen.
- 9. This pergunnah is interesting as giving in one view a good specimen of
  Remarks on village communities in estates under the various kinds of management.
  Mozuffernugger District.

  Mahajun land-holders and village communities are here side by side; and setting apart, as far as they can be detected, disturbing causes, a man may judge for himself of their comparative results. I do not know what it is in other districts, but in the pergunnahs of this district which I have assessed the

I .- PERGUNNAH KANDLA. Zemindaree Villages. Village Communities. Ailum (Jāts).
Disala (Goojurs).
Pinjokra (Goojurs).
Bumbeesa (Jāts).
Bural (Rajpoots). Aldee. Rampoor Kheree. Gungeyroo Sadat. Asudpoor (Sheikh). Lisadh (Jats). II.—PERGUNNAH KYRANAU. Village Communities. Zemindaree Villages. Kishorepoor (Maha-Gogwan. Goojurs Teeturwarah, juns). III .-- PERGUNNAH THANNA BHOWDN. Zemindaree Villages. Village Communities. Noujul, Rajpoets. Cazeepoor,
Ahmedpoor,
Moolanpoor,
Saneepoor, Cazeepoor, Yarpoor, Bunkera. } Jâta. Bhysance, { Rajpoots. Gagwan, IV .- PERGUNNAH CHURTHAWUL. Zemindares Villages. Bannugur, Loharee, Mahajuns. Jut Nugla, Deedsherec,

balance is altogether in favor of the village communities. I add in the margin some of the villages from which I have drawn this conclusion. These are villages in which there are, as far as I could see, no disturbing influences. The village communities are of all castes, and both they and the zemindaree villages are those which in the former settlement were fairly assessed. In some no increase has been made in the demand; in many others a reduction has been allowed; in a few it has been raised: hence these villages are fair subjects of comparison: Thus, in Ailum, Bural, Gogwan, Nowjul, Bhysanee, Gungeyroo, and Loharee, a reduction has been allowed. In Lisadh the demand has been retained; in the others it has been more or less raised. The zemindaree villages are, it should be added, all, those in which the Zemindar, whether mahajun or other, has got a thorough footing. Every village, in fact, except those in which, though the landlord has rights, he has never been in full enjoyment of them.

10. In the village communities the villages are full and substantial. Cultivation is incessant, careful, and of the best The land-holders are for the most part intelligent, pleasant men, out-spoken, self-reliant, and independent. Their cattle are of bhyachara and Description zemindaree villages. numerous, and well-to-do. Artizans of all kinds are to be found in every village, and the general impression is of comfort and abundance. But in villages owned by landlords of other castes—i. e., in zemindaree villages—all this disappears. The site is covered by a few huts of malees or chumars. The cultivation is in greater proportion of poorer crops. There is less manure, and hence less cane, cotton, or maize. The cultivators are miserably poor and ignorant, without self-reliance, or interest, or intelligence. All the material with which education has to deal is wanting; all the qualities which form the basis of rational prosperity are discouraged or destroyed.

11. Where cultivators with right of occupancy have contrived to hold on (this Villages in which cultivators have is generally in other than mahajun villages), the a right of occupancy. characteristics of the village are the same as in village communities;—there are the same substantial houses, the same abundance of cattle, the same air of independence and self-reliance amongst the residents.

Kanola P.

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12. Nor is this distinction accidental. The method in which the original land-holders are first reduced to cultivators, and finally driven away, is matter of daily experience. At different times I have had opportunities of seeing it

If the landlord have not bought the cultivating right, he first in its different stages. gets the Putwaree on his side. He then commences a career of suits for arrears of rent, refusing to divide the grain when ripe, and preferring to embarrass the cultivators by subsequent litigation. The cultivators, on their side, are nothing loth, and enter on the contest in the hope of dispossessing the proprietor, or worrying him out of his estate. The former party never, the latter only under the prospect of ruin, wishes Decrees and balances accrue; the cultivators are unable to meet the accumulated demands; at last a suit for ouster is brought, and the cultivators lose their right of occupancy. From that moment the fight is over. The landlord lets out his fields to men from other villages; the old cultivators disperse; the site is abandoned; the houses fall in, the high-walled enclosures are levelled, and in a corner of the village a space is cleared for the low huts of malees or the yards of chumars.

- 18. The principal reason leading to the adoption of such a line of action I believe to be that the mahajun landlord does not see Probable causes of the dislike of in what his real interest consists. He looks for mahajun and other landlords to the more independent classes. increased profits from an increased share in the produce of the land, not from an increase in the produce itself; hence he seeks to cultivate it with men who will not haggle about their share. The independent qualities of Jats and Rajpoots are odious to him. The qualities that distinguish them are precisely those which he most dislikes. First-rate agriculture, unceasing labor, and an intelligent tenantry, are not his object. He prefers indifferent tillage and submissive hands. And what in this district is done on a small scale would, if occasion offered, be re-produced on a much larger. Population is abundant, and agriculture is the chief resource. Hence, in as far as the village communities or cultivators with right of occupancy were destroyed, so far would the population depend for its subsistence on the terms which the mahajuns chose to impose.
- Results of increasing mahajun landleisure, or comfort, the tenure of the mahajun is fatal,
  does not a system in an agricultural society, in proportion as it extends mahajun tenures
  and destroys the village communities, or the occupant tenants, militate against the condition of social advancement?
- These men ignorant of their duties. large native land-holders in this part of India. They have no enterprize, or wish to improve the country and forward its social prosperity, and they would be the very last to interest themselves about the education or progress of the masses. All experience, I believe, proves, even if all à priori reasoning had failed to point out, that as a rule among an agricultural people great landlords and a flourishing community are incompatible; and most assuredly of all great landlords the least likely to belie experience would be the Soukars of this district. A few large estates are in every way desirable, but what seems so objectionable is the tendency to have nothing but large estates.
- In speaking of the prosperity and intelligence of these village communities,

  Remarks on prosperity of village communities to be taken with certain qualifications.

  I am aware that I may be charged with exaggeration; but it must be remembered that I speak of villages fairly situated. Villages really overassessed (in Mozuffernugger they are few) are a miserable sight enough. Villages with a poor soil or scanty irrigation are often ill at ease. Nor do I allude to Sheikh,

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Pathan, or Syud village communities. These have the form, but not the spirit. The characteristics of the Hindoo or more industrious Mussulman village communities are altogether wanting in them, though even of these it may be said that in their hands cultivation is not worse than in mahajun hands, or their presence a source of greater social depression than the presence of a handful of malees. It may, too, be denied that the village land-holders are the men of substance I have described; but I have reason for supposing that some of those who differ (men of little experience, but of quick observation) have confounded the chumars, sweepers, weavers, and kahars, who are always to be seen hanging about the pools and the bye-lanes of a village, with the actual proprietary body. The error is not unnatural, or the inference unusually hasty; but it is the source of much erroneous declamation, and very considerable misconception of the agricultural physique. Meanwhile, I have cited the villages from which, amongst many others, I have generalized, and any one who likes may see them and judge for himself.

- 17. No doubt, too, that many natives (chiefly Mussulman) whom our rule has impoverished, and who lived by the plunder of these very villages, hate them for their prosperity, and, contrasting their own fallen state with the spreading villages and comfortable homes of their once defenceless subjects, are never weary of enlarging on their ignorance, stupidity, insolence, and rascality. And as these men are chiefly of the class who fill the ranks of the Government service, they contrive to inoculate with their own ideas a good many official and non-official Englishmen. But the sources of native opinion should be searched, though the decaying Mussulman may be excused for flinging a last lie at the class whose prosperity depended on his destruction.
- Present form of village—how far state of society is another question; but I should susceptible of change.

  think that the necessary changes will be brought about without the aid of legislation. The tendency in this district is to leave no land in common, every man holding in separate possession his cultivated, barren, and inhabited land. The joint responsibility remains unimpaired, but every man gets the entire fruit of his own labor; hence suits for imperfect partition have been very numerous. Outsiders are doubtless still deterred from letting their money go to the land, but, as has been said, in the present state of society here, there is a wide difference between an outsider purchasing land, and expending his money upon the land.
- A permanent settlement may do well, but any one who travels through this district, and listens to the tales of its condition forty Remarks on a permanent settlement. years ago, will confess that temporary settlements have done well too. The map shows how closely the villages lie together, and the census shows a population of 409 to the square mile. But neither map nor census can give an accurate idea of the teaming life, the innumerable wheat fields, the long stretches of cane cultivation, the busy wells, the variety of large tracts of uncultivated land, the prosperous stir of villages and agricultural towns. The people say that, under a permanent settlement, if Government takes no increase, neither will it give any relief. They think, too, that when it ceases to be directly interested in the land, it will be averse to expending money on works for improvement of agriculture. perience, they say, has taught them that the Government has been true to its word when it said they should be left alone for thirty years. They see that at the expiry of that term no greedy hand has been laid on their villages, and that Government did not hold off merely to grasp at the end. They acquiesce in, and understand the re-adjustment of, the demand; and hence they scarcely know whether to be more pleased at the advantages or frightened at the dangers of a permanent settlement.

MOZUFFERNUGGER: The 8th January, 1864.

A. COLVIN, Settlement Assistant.

## PERGUNNAH SHAMLEE.

- 1. This Pergunnah was assessed in the hot weather of 1863, and the new jumma came into force from 1271.
- The Pergunnah has Thannah Bhowun on its north, Bugrah to the east, Kandlah to the south, and Kyranah to the west. Description of Pergunnah. The Kirsunnee runs through it from north to southwest between high banks. The Pergunnah is very unequal in fertility. The villages grouped about the canal are naturally fertile, though the soil is adapted in each set for different crops. In the west corner a small plot of villages takes after the high character of the neighbouring Kyranah Bangur Circle. The villages to the east of Kirsunnee again are widely different. Those which I have grouped in the Buntee Khera Circle have a poor soil and scanty irrigation; while the villages on the extreme cast, the Kodanah Circle, are among the most naturally fertile in the district. some low land near Sulawur and Kurorce injured by the interception of drainage caused by the canal, but Major Brownlow has run a drain, as marked in the map, from Salawur to Sikkuh, and hopes to carry off the water into a natural nulla running The inhabitants are chiefly Jats, and the villages Bhyachara. into the Kirsunnee. Shamlee is the only large town. The chief trade of Shamlee is in sugar, but every kind of produce is imported and exported. In cloth, grain, and salt a large business is done. The residents are entirely mercantile, and give a good specimen of the narrow, stupid, grasping character of too many Hindoo merchants. Their trade within the last two or three years has slackened, and the reason given is that the Shamlee merchants are not true to their agreements, and houses at a distance refuse to trade with them. To Government Officers they are invariably disobliging and inattentive. Major Brownlow by drainage has made their town comparatively clean and healthy; and what he has done for their bodies, some future officer of equal energy may possibly do for their morals. They have no man of any substance amongst them-only The chief roads are from Shamlee to Mozuffernugger crossing the small traders. Hindun at Tutavee where a bridge is now building. This road is much used, -sugar and rice coming up, and grain going down it. From Thannah Bhowun another road runs to Shamlee, and from Shamlee three more branch out to Jhinjhana, Kyranah, and Kandla. Perhaps there is more traffic on the Shamlee-Kyranah Road than on all the others. The sugar of Shamlee leaves by this road for Paniput and other districts of the Punjab, and salt comes up this road to Shamlee. The Eastern Jumna Canal At Shamlee is a Tehseel and Police Station. runs to the west of Shamlee.
- 3. The average canal irrigation, by canal papers at the last settlement, was

  Canal irrigation of former and present settlement.

  10,086 acres as against 20 villages, and at re-settlement, 15,615 acres as against 24 villages.
- For purposes of assessment I found three circles existing—the Shamlee, Bhynswal, and Kodanah, and to these I added a fourth, the New circles and rates. The accompanying map shows the Buntee Khera. villages included in each circle; the rates for the Shamlee circle were retained with some slight alterations. I considered the rates on irrigated and unirrigated Roslee too low, and raised them respectively on a calculation of the average out-turn of the various crops in each from 2-5-51 to 3-0-0, and from 1-103 to 2-1-2. In the Kodanah Circle I altered the rates for the same kinds of soil from 2-12-81 to 3-3-3, and from The other rates were retained without reduction to half assets.  $1-11-9\frac{1}{2}$  to 2-6-0. The Bhynswal and Buntee Khera rates were altogether recast. Those framed for the Bhynswal Circle seemed to me, and to various zemindars whom I consulted, high where they should be low, and low where they should be high. Thus, rice is the great staple of that Circle, and wheat is rather inferior; but the rates for the soil on which either Sugarcane and cotton, too, are fair, but not extraordinary, the is grown were equal. land having suffered from over-cropping. The rate for that land was Rs. 5 an acre, which I could not on any calculation retain. Accordingly, I framed fresh estimates on

the principles detailed in the Thannah Bhowun Report, and made them the basis of my rates. These rates I proposed to various zemindars not connected with the circle under assessment, and, after such modifications as seemed reasonable, I retained them. The rates of all the circles will be found at the foot of this Report: the estimates rest on personal enquiry. Among Bhyachara villages Khusrah Kunkoot do not exist; and suits for rent are rare, and otherwise do not help one in estimates as to kinds of soil. In the Bhynswal and Shamlee Circles, too, in the place of the estimates in the Appraisement Tables, I substituted for certain articles an estimate, as in the mar-

	BHYNEWAL.  Mds. Srs.	gin, and made my calculations on it in lieu of those
Wheat	8 0	averages given by Mr. Thornton. The results
Gram Barley	9 24 14 16	in each village will be found in the miscellaneous
Dhan	24 0 Shamlee. <i>Mds. Srs.</i>	remarks, and answer invariably to the result of the deduced Revenue rates. Every village was visited,
Wheat Gram Barley Dhan	10 0 8 0 9 0 11 0	and I may boast a very intimate knowledge of this as of other pergunnahs in this part of the district.
		st adopted a plan formerly pursued by Mr. Thornton, but
which, tl	hrough a want of	experience and due appreciation of the nicer points of assess-
	_	

Distinction between irrigated, unirrigated, and irrigated in other years. Distinction was in Shamlee first made between land
actually irrigated in the year of measurement,—land not irrigated that year, but
capable of, and in other years receiving, irrigation,—and boná fide unirrigated land. The
second and first kinds had hitherto been classed together, and an offset made against
the average assumed to fall into the second class. Now, however, they were carefully
distinguished. Irrigated rates were applied only to the area actually irrigated in the
measurement year, and the two other classes were assessed at the unirrigated rates.
The object in assessment being to ascertain the out-turn of one year, irrigated rates
applied to land unirrigated, the year of measurement would have assumed a greater
average of better crops and of the better kinds of crop than actually was the case. Where
this second class (moheeta) was larger than could be fairly accounted for, and above
the circle average, I summarily included a part of each kind in the irrigated area.
Similarly, and on the same principle, manured land was divided into land manured

Distinction with regard to manured the year of measurement, and manured previous years, land.

or for next year's crop. On the first only were manured rates laid, the rest being classed as Roslee. These distinctions were valuable for assessment; and while subjecting to irrigation rates only, the irrigated area show for statistical purposes the whole area capable of irrigation. This plan was pursued in Pergunnahs Shamlee, Kandla, and Kyranah, and will explain the entries of Moheeta, Meesun, and Moheeta Irrigation in the No. II. Statements. For the rest the principles detailed in the Thannah Bhowun Report were followed.

5. The old demand was	•••	t ••	•••	Rs.	1,20,316
Former demand, demand at deduced	The ded	uced Reven	rue rates	"	1,20,303
Revenue rates, and proposed demand.		d demand	•••	79	1,20,117

All my jummas were promptly taken up except Tutolee, which I referred to arbitration and slightly lowered accordingly, and Babree, in which a considerable increase had on good grounds been made, but was distasteful to the Mahajun landlord. The rates of the demand in each circle are as follows:—

			Mal.	Rate.	Cul. Rate.
	Circle Shamlee	Rs.	2 5	6	2 10 8
Rates of the new settlement on each circle and caste.	" Bhynswal	"	2 6	6 <u>1</u>	2 13 21
CIPCIE MIIU OMBOC.	,, Buntee Khera	, ,,	1 14	21	2 2 112
	" Kodanah	,,	2 6	91	2 13 2
	Pergunnah	"	2 4	61	2 10 31

The rates for each caste in each circle are as follows:-

Circle Shamlee.		M	al.	Rate.	C	ul. 1	Rate.
(Two villages) Goojurs	•••	2	0	2	2	0	11
(Twenty-two do.) Jâts	•••	2	5	81	2	11	1
Circle Koodanah.				•			
(One village) Sheikhs	•••	2	8	8	3	0	0
(Twenty do.) Jâts	•••	2	6	91	2	13	$1\frac{1}{2}$
Circle Buntee Khera.							
(One village) Pathans	•••	1	<b>15</b>	9	2	3	91
(Three do.) Rajpoots	•••	1	9	11	1	15	9
(Seventeen do.) Jâts	•••	2	0	01/2	2	4	$5\frac{1}{2}$

Circle Bhynswal.
All Jats.

6. At the last settlement there were Lumberdars, and Putwarees' Circles. There are now Lumberdars and Putwarees' Circles.

7. The amount attributable to the Eastern Jumna Canal is Rs. as caculated in the accompanying statement. And in this place I may bear tribute to the admirable management of the Eastern Jumna Canal under Major Brownlow. Even natives, usually a class slow to admit the excellency of our arrangements, speak of it, as in fact it seems to be, nearly faultless; and, indeed, any one who knows Major Brownlow will understand the secret of his success with that canal. He has shown what an enormous benefit a canal well managed proves to the people, and how well it repays Government. I believe his departure was regretted as honestly and as heartily by the Zemindars in the neighbourhood as it was by all those District Officers who had the rare good fortune to be associated in any way with him in public business.

Excepting the Statement of Transfers, no other has yet been submitted in this pergunnah, hence, in this Report I am unable to touch on their results. From the Transfer Statement it will be seen that transfers amount to about one-fifth of the whole area; and the price on transfers by order of Court to six years' jumma; while in private transfers the price paid averages 11 years' demand. The nikassees in this pergunnah were perhaps more than usually untrustworthy. The following list, taken at random, will show the jummas cheerfully and promptly accepted by certain villages, and the demand which should, at the rate of five years' nikassees, have been imposed upon them:—

			Nik	cassees.	Demand accepted.
	Kyree	•••	Rs.	2,170	3,400
	Kurada	•••	,,	1,245	2,000
Mischievous effects of the Statement	Kubrat	•••	"	478	1,100
of Mutations in the Putwarees' yearly	Bootrara	•••	"	624	1,000
papers.	Bunhera	•••	"	1,252	2,027
	Simbhalka	•••	"	1,049	1,800

The present system of village registration seems to me to be very imperfect, and to carry in it the seeds of serious mischief. For example, the Putwarees' records are as a rule accepted and acted on as trustworthy, both in suits for rent and in the Civil Courts, and in these two points the Settlement Officer finds their inaccuracy most glaring. The amount of produce grown is invariably entered at haphazard; transfers are not recorded; foreclosures of mortgages are not noticed; possession is not specified; deaths are not registered: there are so many Putwarees, so many points admitting of inaccuracy, such a difficulty at the best of proper supervision, and such temptation and inducement to the Putwarree to be fraudulent or incorrect, that the failure of the system can scarcely be unexpected. But the matter requires serious

attention. I do not mean that all records, or the whole of every record, is inaccurate; but they are sufficiently so to call for interference. These records are the basis of hundreds of decisions affecting landed property; and whatever else is unsound or uncertain, the system on which these records are framed should be true and consistent. The Putwaree himself under that system has far too great influence. He draws only from Rs. 80 to Rs. 120 a year; but there is scarcely a decision regarding his circle containing property to the value of Rs. 30 or 40,000 which is not biased by his ipse dixit. Living as he does in or near the circle, perhaps a relation of some of the zemindars, he can scarcely be expected to be disinterested. (In this district the Bhyachara villages generally put up the appointment to competition, and the highest bidder gets it.) The limit of the Putwaree's duties should it seems to me be narrowed, and the most dangerous of them taken from him. The Statement of Mutations (Nuksha Intikalee) is the paper over which I would give him no influence. That paper embraces by far the most important of his duties. I would remove the Register of Transfers altogether from him: it should be kept at the Tehseel; -and all mortgagees, transferees, and heirs, obliged, under a penalty, to record mortgage, transfer, or succession. Questions of possession would still arise, but they would be as satisfactorily solved by enquiry among the villagers as by the deposition of an interested or ignorant Putwaree. settlement papers had been completed, I would leave nothing to the Putwaree but the Rent Roll and the Village Accounts. That is his proper sphere, Even within that he has opportunities enough for mischief; but this it is difficult to correct. rights may be at any rate removed from him. This matter it is to be hoped will soon be thoroughly discussed, and some change in the present system approved. The details of a scheme such as that above suggested are open to discussion, but I have little doubt but that some such scheme is required, and is practicable. Transfers reported at the Tehseel, after sanction from the Revenue Authorities, might be duly recorded. and a certificate given to the parties, duplicate Registers being kept at the Tehseel and Sudder. Transfers are not of such daily occurrence that any great work would be entailed by this, and suits in the Civil Court, in which transfer could not be authenticated by a copy of the District Register, might be dismissed. The proper remedy no doubt would be so to educate the people as to induce them to take a more intelligent interest in these records, and must come from within and not from without.

Mozuffernugger:
The 8th January, 1864.

A. COLVIN.

See paragraph 4.-

M. I. M. U. R. I. R. U. D. I. D. U. B. U. Shamlee Circle ... 3 9 6 300 1 14 11 0 31 0 12 0 4 5 6 2 3 51 0 15 51 Buntee Kehra " 380 800 256 1 11 0 1 12 0 10 0 Bhynswal 1 12 0 3 12 0 13 7

S. N. MARTIN, Collector.

		return of	grain for the ur years, then	has become of dearer.	sounted for	area, and n into the	uld mect with I have men-	another place that Assistants, Messrs.	t, have en atter, and	al or har. er cheaper	0	of the po- e demand	n, it is very stand how	can possibly re-			
Bemarks.				r grain h	This can only be accounted for by the fact of a large increase	in the cultivated area, and more grain thrown into the	market than could mect with a ready sale. I have men-	tioned in another place that both my Assistants, Messra	Colvin and Grant, have en- quired into the matter, and	they state that fusi or harvest prices are rather cheaper	n they we lement. C	the rapid growth of pulati n, and the	elsewhere for grain, it is very difficult to understand how	prices can p. stationary.		-	
		If this be	the price of last twenty-fo	certainly cheaper i	This can by the fa	in the more gr	market than co	tioned in both my	Colvin quired in	they sta	now than they last settlement.	the rapid pulati n,	elsewher difficult	fusl prices can main stationary			
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1842-46*	.abM.	ි ::	:	35	36				<u>-</u>		38			11	 %	16	- ST - :-
1844-48.	Mda.	73 35	5 1 10	<u>-</u>		24	2 1 2	6E			1 304	264			31		
1843-44.	Mds.	37	- 2	1	7 29	8	35	5 37	36	35	5 31	21	: 2	32		20	27
1842-43.	Mds.	3		3 31	37		33	36	31	 8	35	.: 56	- 2 - 3	7	<u> </u>	18	
1841-43.	Mds.	-:-23	2 28	:	 .:.	7 14	7 26	35	214 35	35	::	.: 32	34 32	.: 34		14	18
1840-41.	Mds.			<u></u>	25	17	27					61	184		24	15	- S
		•		•		Mustard	•	Mukkee		•	•		•		Chuhora .		•
		Wheat	Barley	Gram	Мивоог	켫	Pears	4	Jowar	Bajra	Mote	Oorud	Moong	Dhan	2	Kurrur	Torys

Bazaar prices of grain for the last twenty-four years for Kusbah Shamlee, obtained from the Chowdhree of the Bazaar.

#### PERGUNNAH JHINJHANA.

This Pergunnah lies to the west of Thannah Bhowun and east of Bidowlee, and is bordered by Shamlee on the south, and Gungoh, of the Suharunpore District, on the north. In point of cultivation and natural Description of the Pergunnah. fertility it varies greatly. The villages in the north-west corner are imperfectly cultivated, and thick with high dhak jungle; but the soil is naturally fair, and up to the average of the district. In the north is a small clump of high lying estates, with sandy light soil, and water at a great depth. Towards the south the cultivation improves, the villages grow larger, population is more abundant, and dhâk jungle grows infrequent. In the south-east cultivation is very high, and as good as any I have seen in the district; while in the opposite south-west corner there is scarcely a blade of wheat, or an inhabited village. This corner lying under Bidowlee suffered from similar causes. The chief crop, as will be Statement, is wheat (47 per cent. of the cultivated area); Chwur seen from No. occupies 18 per cent., and the other crops are grown in small but equal proportions. The only town is Jhinjhana, situated high above the plain and over-looking to the north-west the ill-cultivated plains that stretch across to Bidowlee, and to the south-east the mango groves, close clustering villages, and wheat fields which mark the neighbourhood of the Eastern Jumna Canal. High as the town lies, it suffered severely from cholera in 1861. The largest village perhaps is Oon, -one of many admirable examples of Jat industry and the vigour of a village community.

Castes, area, &c.

* As against 93.2 and 409, page 110, Christain's Report on the Census. Re-duction in population attributable to re-sults of Mutiny and drought.

The chief castes are Jâts and Goojurs: there are also some Pathans, Rors, and Sheikhs. The pergunnal map accompanying will show the distribution of castes. The area* is 94 square miles, and the population 306 to the square mile. There are but three Zemindaree villages, all lying in the small ill favored group spoken of in the

last paragraph. The bulk of the villages is Bhyachara; there are markets at Jhinjhana and Gurhee Hussunpoor, chiefly for agricultural produce. The Meerut-Kurnal Road runs through the south-west corner and taps the Jhinjhana market, which is also one of the markets for the Bidowlee Pergunnah. This road is at present the only high road in the pergunnah; but a new road, the line of which is traced in the accompanying map, is about to be made to Thannah Bhowun. The chief traffic, however (sugar), goes to Shamlee. A small stream (the Katha) runs through the pergunnah, and the Eastern Jumna Canal on the east side sends out three rajbuhas into it-of which, however, the Boontah Rajbuha is below the level of the country, and does comparatively little good in this pergunnah.

The former assessment had on the whole worked well. The villages on the west or Bidowlee side of the Katha were rather over-Former settlement successful. assessed, but the others were doing well, and were populous. The rebellion and drought of 1860 had told severely on the over-assessed villages, and to these chiefly relief was confined. Reductions due to the half-asset principle were necessary in some other villages, but beyond that, only in the villages above mentioned. The average canal irrigation, according to the canal records at the time of the last settlement, was 1151 acres, as against 9 villages, and at the present settlement 3653, as against 16 villages. The canal villages were most prosperous.

As the circumstances of the Pergunnah were unaltered since 1840, and prices unaffected,* I maintained the circles and rates fixed Deduced Revenue rates of new setby Mr. Thornton, only reducing the rates to half tlement. assets. Oon only was an exception, the circumstances * See Thannah Bhowun Report, paraof which will be found in the miscellaneous remarks. graph 11.

The deduced Revenue rates then stood as follows:-

		M irr	ees iga			Mecsun, unirri- gated.			Rosles, irrigated.			l.	Roslee, unirri- gated.			Dakur, irrigated.					kur, Fri- ed.	i	Bhoor, irrigated.				Bhoor, unirri- gated.			
I.	Mulhendee	3	19	3	0		•••		1	l	8	41	1	(	0 6	3 1	1	8	8	0	15	9	0	13	1		0 1	0	2	
n.	Jhinjhana	2	15	,	9 <b>}</b>		•••		1	l	8	9	1	1	1 (	)	1	8	9	1	•	8	1	4	5	}	0 1	2	5 <u>1</u>	
III.	Gurhee Hus- sunpoor	2	1	. 1	10	1	5	6	1	Į	6	4}	1	5	2 1	ŀŧ	1	9	1	1	7	7	0	14	10	١ (	0 1	2	1	
IV.	Alaw-ood- deenpoor	1	9		1}				1		8	7 <u>1</u>	0	14	5	ł	1	8	3	1	0	2	1	4	54	. (	) 1	2 :	9	
V.	Gungarampoor	. 2	15	1	11		•••		1		8	0	0	14	2	1	1	6	11	1	5	1	0	12	4	(	)	9 4	4 <u>}</u>	
VL.	Oon	3	12	(	0		•••		1	1	2	1	1	4	0	ł	1	8	8	0	15	9	0	13	11	0	10	2	3\$	
VI. Oon 3 12 0 1 12 1 1 4 0 1 1 8 8 0 15 9 0 13 1 1 0 10 2 1  The principles of assessment were precisely those detailed in the Thannah Bhowun Report. This pergunnah was assessed in 1862 after the Thannah												-																		
Bho	wun Pergur	ma	h:	:	it i	8 1	tee	edle	388	t	h€	eref	ore	t	0 (	dw	ell	on	ı the	m	he	re.								

howun Pergunnah: it is needless therefore to dwell on

The former pergunnah jumma was Rs. 63,504 The jumma at deduced revenue rates was 43,131 My proposed jumma is 56,707 "

The difference between the 2nd and 3rd of these columns is owing to the assessment having extended to lands thrown out of cultivation in the measurement year by the famine, and hence not included in the cultivated area.

The rates of the new jummas on the malgoozaree and cultivated areas of each circle are given below, as well as those of the whole Rates of the new demand. pergunnah; the neighbouring circles of Thannah Bhowun, Bidowlee, Shamlee, and the neighbouring pergunnah of Gungoh, and the incidence of the rates in each caste in each circle:-

			M	alg	<b>00z</b> a	ree Rate.	Cultivated Rate				
1.	Mulhendee Circle	•••	Rs.	1	13	111	2	6	2		
2.	Jhinjhana Circle	•••	"	0	15	103	2	3	5		
3.	Gurhee Hussunpoor Circ	cle,	,,	0	15	111	1	15	7		
4.	Gungarampoor Circle	•••	,,	0	9	91	1	11	81		
<b>5.</b>	Alaw-ood-deenpoor Circl	в	,,	0	7	8 <u>1</u>	2	12	6		
6.	Oon	•••	<b>,,</b> .	2	2	4	2	10	9		
<b>7</b> .	Pergunnah Jhinjhana	•••	"	1	4	$7\frac{1}{3}$	2	4	31		
8.	Pergunnah Gungoh	•••	"	1	3	7	1	11	5		

The circles adjoining of other pergunnahs are as follows:-

- 1. Adjoining Gurhee Hussun- Aurungabad Circle (similar to Mulhendee Circle). poor and Mulhendee Circle. Malgozaree Rate. Cultivated Rate. Rs. 1 14 04 Rs. 2 9 11
- 2. Adjoining Mulhendee, Jhin- Shamlee Circle (similar to Jhinjhana Circle). jhana, and Alaw-ood-deen-Malgoozaree Rate. Cultivated Rate. poor Circle.
- 3. Adjoining Alaw-ood-deenpoor, Bidowlee Circle (similar to all except Jhinjhana Jhinjhana, Gungarampoor, and Circle). Gurhee Hussunpoor Circles. Malgoozaree Rate. Cultivated Rate.

Rs. 0 9 5 Rs. 1 3 111

The rates of the assessment on each caste within each circle (formed on the principles detailed in paragraph 28, Thannah Bhowun Rates on each caste in each circle. Report) are as follows:-

#### 1. Mulhendee Circle.

Malgoozaree	Rate.	Cultivated	Rate.
-------------	-------	------------	-------

1. Jäts	•••	Rs.	2 0	8 <del>3</del>	Rs. 2 10 9	(seven villages.)
2. Rajpoots	***	"	1 12		,, 2 4 11	

1.	Mulhendee	Circle -	(Continued.)	
1.	Munenaee	Circle.	Commueu.	,

3. Brahmins	•••	Rs.	2	0	$6\frac{1}{2}$	Rs.	2 10 11	(one village.)			
4. Beloch	•••	"	1	10	41	. 99	1 15 6	(four villages.)			
5. Goojurs	•••	,,	1	10	$5\frac{1}{2}$	,,	1 14 6	(one village.)			
6. Pathan	•••	"	1	2	9	,,	1 7 $5\frac{1}{2}$	(one do.)			
2. Jhinjkana Circle.											
Malgoozaree Rate. Cultivated Rate.											
1. Jats	•••	Rs.	0	15	81	${f Rs.}$	2 4 4	(six villages.)			
2. Goojurs	•••	"	0	9	$6\frac{3}{4}$	"	1 13 $6\frac{1}{2}$	(three do. )			
	3. Gungarampoor Circle.										
Malgoozaree Rate. Cultivated Rate.											
1. Rajpoots	·	Rs.	0	9	0	Rs.	1 9 3	(one village.)			
2. Pathans	•••	,,	0 1	LO	8	27	1 13 10	(two villages.)			
3. Jâts	•••	,,	0	7	7	"	2 1 103	(one village.)			
		4.	G	lurh	ee Hu	ssunpoo	r Circle.				
	.1	Malgod	zar	ee R	ate.	Culti	ivated Rate.				
1. Rajpoots	•••	Rs.	0	12	7	Rs.	1 14 4	(six villages.)			
2. Rors	•••	,,	1	4	10 <u>‡</u>	"	2 3 7	(one village.)			
3. Goojurs	•••	"	1	2	11 <del>1</del>	,,	1 9 5	(three villages.)			
4. Jâts	•••	"	1	5	11 <del>1</del>	"	2 6 11	(one village.)			

In the Alaw-ood-deenpoor Circle there is only one caste (Goojurs), and in Oon a single village (Jats).

- 7. In one village only, Putnee Pertabpoor, was a rusudee jumma considered necessary. The details of this village are in the miscellaneous remarks.
- 8. There were 210 Lumberdars at the time of re-settlement; they have been reduced to 147. The Putwarees' Circles have been modified, and there are now 34, in lieu of 32, of which the highest pay is Rs. 150, and the lowest Rs. 77; maafee villages confiscated in the rebellion have been brought on the Towzee since 1857.
- Remarks on the various statements submitted will be read with interest, especially those compiled from the former and new records, as these may be regarded as substantially correct. Transfers, it will be seen, amount to about one-fifth, averaging, in the case of private transfers, to about 5 years' jumma, and in transfers by order of Court to between 3 and 4 years' jumma. Of these transfers rather less than 1-4th, or 1-20th, of the whole area, are into thehands of the mahajuns. The remarkable increase in tenants with right of occupancy will be noticed—being as 488 to 16; while the average holding of each is little more than an acre. The average holding of cultivating proprietors, 8 acres, is much the same here as in other pergunnahs. The cultivated area, including recently-abandoned land, is a little less than that of the last settlement. The large amount of recently abandoned land must be attributed to drought and the disturbing effects of the rebellion. The causes of the stationary amount of cultivation have been touched on in paragraph 17 of my Thannah Bhowun Report.
  - 10. All the jummas were taken up promptly, and I hope that by a moderate de-Jummas promptly taken up.

    mand I have assisted in opening out a prosperous future for the landholders of this pergunnah.

Mozuffernuggur: The 8th January, 1864.

A. COLVIN, Settlement Officer. (117)

(COPIES.)

No. 795 of 1864.

From

## W. C. PLOWDEN, Esquire,

Secretary, Sudder Board of Revenue,

North-Western Provinces,

To

# R. SIMSON, Esquire,

Secretary to Government,

North-Western Provinces.

Dated Allahabad, the 5th November, 1864.

SIR,

I AM directed by the Board of Revenue to request that you will obtain the sanction of the Hon'ble the Lieutenant-Governor to the exclusion from the permanent settlement of the pergunnahs of Bidowlee and Gordhunpore, in the Mozuffernuggur District.

2. Gordhunpore.—This pergunnah is suffering from bad drainage, caused either by percolation from the Ganges Canal, or other cause. Efforts are now being made to introduce an effective system of drainage by the Canal Department. Whether this be early successful (as there seems ground for hoping) or not, it is evident that the present resources of the pergunnah cannot form any index of its eventual resources when reclaimed. It would not be possible to determine even prospectively a fair permanent assessment. Indeed, looking to the present condition of the tract, and its liability to flooding from the Ganges and Solani rivers, and the uncertainty as to the result of drainage operations, the Board support the proposal made by the Collector in his demi-official note dated 7th ultimo, copy of which is enclosed, that the present settlement of the pergunnah be confirmed only for ten years. Under present circumstances there would be no object gained by a lengthened settlement.

Bidovoles.—The Board accept Mr. Martin's statement that, for the reasons already stated, there are no grounds for assessing a permanent jumma on the pergunnah, and that anything like an adequate assessment could not at present be borne by the population. The malgoozaree area is 41,000 acres, of which 20,500 are uncultivated. The rates are—malgoozaree, Rs. 0-10-1½; cultivated, Rs. 1-4-2½;—while those of adjoining pergunnahs in Mozuffernuggur are—

• 01 0	1	Malg	300z	aree.	Cultivated.					
	Rs.	1	4	74	Rs.	2	4 31			
				81	"	1	8 10 <u>1</u>			
and of Gungoh, in	seh	ıruı	ipor	·e			•			
	Rs.				Rs.	1 1	1 10			

The Board accordingly support the proposal that this pergunnah be excepted from permanent assessment.

4. These tracts fall into the first of the two classes described in the Board's Circular Order No. 18, dated 1st August, 1864—viz., first, backward in agriculture, with low rates of rent.

I have, &c.,
(Sd.) W. C. PLOWDEN,
Secretary.

No. 1410A. of 1864.

FROM

J. D. SANDFORD, ESQUIRE, B.A.,

Junior Secretary to Government,

North-Western Provinces,

To

W. C. PLOWDEN, ESQUIRE,

Secretary, Board of Revenue,

North-Western Provinces.

Dated Camp, Allygurh, the 25th November, 1864.

SIR,

REVENUE DEPT.

In reply to your letter No. 795 dated 5th instant, I am directed to state that the reasons given by the Sudder Board of Revenue seem to the Lieutenant-Governor to be conclusive against the propriety at present of a permanent settlement of the pergunnahs of Bidowlee and Gordhunpore, in the Mozuffernuggur District.

2. The original enclosures of your letter are returned.

I have, &c.,

(Sd.) J. D. SANDFORD,

Junior Secy. to Govt., N. W. P.

No. 579 of 1864.

FROM

W. C. PLOWDEN, Esquire,

Secretary, Board of Revenue, North-Western Provinces,

To

SIR

F. WILLIAMS, ESQUIRE,

Commissioner, Meerut Division.

Dated Allahabad, the 5th November, 1864.

REVENUE.

Present:
W. MUIR, Esq.,
Senior Member.
R. Money, Esq.,
Junior Member.

In reply to your letter No. 528 dated 24th September last, I am directed to inform you that, as proposed, the Board of Revenue have recommended to Government that Pergunnah Bidowlee and Gordhunpore, in the Mozuffernugger District, be excluded from the permanent settlement.

2. But with regard to Pergunnah Bidowlee, I am desired to state that the Board are not satisfied that Mr. Colvin may not have gone too low in his assessment. He reduced the assessment from Rs. 37,950 to Rs. 25,960. The reduction appears very large, and it is questionable whether it was fully justified. The Government are in nowise bound to confer a half-asset settlement calculated by the existing assets of a tract of which 50 per cent. of the culturable area is left out of cultivation. The opposite course has been followed in Gungoh, the adjacent Pergunnah of Saharunpoor,

situated very similarly. It is hardly fair to Gungoh to assess Bidowlee at such a great advantage to the lazy proprietors.

3. Mr. Martin should be desired to revise all the assessments, and to see that the Government assessment has not been unduly sacrificed. A sufficient margin should be left to prevent deterioration, but that need not necessarily be more than 35 to 40 per cent. of the assets.

I have, &c.,

(8d.) W. C. PLOWDEN,

Secretary.

No. 92.

FROM

S. N. MARTIN, ESQUIRE,

Collector, Mozuffernuggur,

To

F. WILLIAMS, ESQUIRE,

Commissioner, Meerut Division.

Dated Mozuffernuggur, the 13th September, 1864.

SIB,

I Do myself the honor to submit two statements for Pergunnahs Bidowlee and Gordhunpore, containing reasons for excluding both these backward tracts from the benefits of a permanent settlement; data is so imperfect that I am unable to fix a maximum jumms, and my object in submitting these statements is to ascertain from superior authority whether the exclusion of these pergunnahs is under the circumstances in accordance with the views of Government.

- 2. It is as well to ascertain this point at once before further steps are taken. Mr. Colvin the Settlement Officer who assessed Bidowlee, has recorded a memorandum recommending the assessment of "Bidowlee" be made permanent, mainly on the consideration that a temporary settlement is not likely to mend matters; that it has already failed, and that honest men would prefer leaving the rogue to pay 10 annas the acre as long, as he did not molest his neighbours, to making him pay Rs. 1-8-0 at the risk of his becoming a perpetual pest and nuisance to everybody all round.
- 3. After giving the subject mature deliberation, I am unable to accord with Mr. Colvin. We must make the best of the Goojur tribe, no doubt: to expel them from their haunts, and to supply these places by a more industrious class, is simply impossible—to attempt such a thing would be folly, and no practicable man would ever try it; a considerable admixture, however, may take place to the advantage of all parties. Seeing, then, the abnormal state of things that now exist in Bidowlee and Gordhunpoor, I am unable to propose it be made permanent. I think it safest to wait till the close of another temporary settlement, and then, with the accumulated experience of the past, something positive may be determined for Bidowlee. I doubt if the condition of Gordhunpore will ever be anything else than variable.

I have, &c.,

(Sd.) S. N. MARTIN,

Collector.

I propose making both Bidowlee and Gordhunpore temporary settlements, say for ten years—after that, subject to revision.

## PERGUNNAH BIDOWLEE.

- 1. Measurements were commenced in this pergunnah in October, 1860, and completed in May, 1861.
- 2. The assessment was completed in December of the same year. The results are separately noted.
- 3. This pergunnah is inhabited chiefly by Goojurs and Rangurs; there are also a good many Syuds, a few Jat villages, a sprinkling of Rors and Pathans, and one village of Tuggas. The principal markets, besides Bidowlee, are at Jhinjhana and Kurnal. The soil is favorable to simple sunk wells, which, almost throughout the pergunnah, can be dug at a cost of 7 or 8 Rs., and last certainly for one fusil, ordinarily for a year, irrigating about 4 acres. In the low lands bordering the Jumna an outlay of Rs. 2 or 3 will provide a well; but here the soil being naturally moist and fruitful, wells are little required.
- 4. There is no canal irrigation. Whether a rajbuha leaving the Jumna in the Gongoh Pergunnah might not be run through Bidowlee is under consideration.
- 5. It must not, however, be understood that, because wells can be cheaply made, the soil is naturally generous: on the contrary, it is rather below the average. There is in many parts a large admixture of Bhoor, and the Roslee is of its kind rather inferior. The cheaper and coarser crops are the most frequent—joar, gram, mundwa, and cotton (baree) are tolerably healthy and abundant. Wheat, except in the Khadir, is invariably poor. Maize and sugarcane are to be found in few other than Jât villages,—even the Jâts growing them with indifferent success.
- 6. Independently of the natural poverty of its soil, the pergunnah is seriously injured by what is known as "reh." This, rising from the Jumna, renders large tracts of land unculturable, and in a week or ten days will entirely kill a flourishing crop; on the other side of the Jumna it is equally prevalent. The villagers say that manure is fatal to it; but manure, little enough used in this district by the better class of cultivators, is almost entirely neglected in Bidowlee. Thus it will be seen that of a total cultivated area of 23,317 acres, 2,251 only were recorded as "Meesun" during the measurements, of which 514 are to be found among the seven Jat villages.
- 7. The course of the Jumna, which enters the pergunnah from above, has of late years materially altered. Instead of running as represented in the map, it now places on its Kurnal bank six villages,—viz., Nuseerpoor, Nulwee, Dubharhe, Choondeypoor, Rusoolpoor, Nugla Neghuh,—and much of the lands of two or three others. It is yearly eating more and more into the pergunnah.
- 8. More than one-half of Bidowlee is enshrouded in thick dhak forests, used partly by the Goojurs as hiding places for themselves and their stolen cattle; keekur trees are also abundant, and might, perhaps, if disposed of to the Railway Engineers, command some profit; but no demand has reached the people, who are too indolent to cut and carry them unless sure of a ready market.
- 9. Bidowlee has been long known as one of the most unsatisfactory pergunnahs in the district. For many years it has been suffering from over-assessment; but the troubles of 1857-58, and the famine of 1861, have reduced it to a very bad condition. The pergunnah was once thickly inhabited by Syuds, whose descendants still cling to it; though impoverished and almost beggared, there are not wanting signs of former prosperity. Some village sites show evident traces of having formed the centres of considerable life; in almost every village is to be found the decaying fort of some decayed family. Wells constructed with masonry are abundant; but, while the old wells have been neglected, few new ones have been built. There were

There are now 1,030, but 113 have been allowed to fall 929 at the last settlement. out of order. In 1860-61 there were 294 kutcha wells. Little by little, the population have slunk away, as the settlement of 1838 became more and more intolerable. Most of the Synd proprietors have long since declared themselves insolvent, and allowed their estates to be made over in farm to the resident villagers. These in their turn have absconded; then the village has been farmed by neighbouring cultivators, who, again, in a year or so have declared themselves unable to meet their Government demands; and so, for a longer or shorter period, the village has been thrown back into the hands of Government. The inhabitants, finding that even active cultivation will barely meet the jumma, have, as a rule, ceased to interest themselves in agriculture. The Nawab Ahmed Ali Khan, of Kurnal, is content to pay the Government demand, and see his lands lie waste; while Syud Mehndee Hussun, of Bedoulee (lately in the service of the former King of Oude), attempting to induce a better class of cultivators to enter the pergunnah, was met with such resistance by the Goojurs and Rangurs that, unable to keep his Jats in comfort and security, he was obliged to let them go.

- 10. Distress, as might be expected among such a population, has had its usual effects. The Goojurs and Rangurs, naturally thieves, have been further demoralized by pinching circumstances. Even the better-disposed classes, such as Syuds and Pathans, finding they could scarcely wring out an honest livelihood, have been found to enter heartily into the cattle-lifting of their neighbours; while the sudder station, with its staff of Magistrates, being 37 or 38 miles distant, there have been found little means of forcing the people back to their proper pursuits by a just fear of speedy punishment.
- 11. It is evident that such a pergunnah required consideration; nor was it an easy matter to judge how far such consideration should extend. There were no flourishing villages,—few villages even ordinarily well to do;—no successful rates or neighbouring jummas to which reference might be made. The Gungoh rates proved higher than it seemed wise to enforce. On the one hand, the revenue was to be lowered; on the other, "rusudee" jummas were to be avoided. A jumma to be paid for 30 years was to be discovered, which, without prejudicing the claims of Government, should be such as could be at once met by the cultivators. Obviously this has not been an easy task. There has been only a negative standard—a standard to avoid, but none to guide. It cannot in any way boast of having discovered the clue to the problem. The result must show how far the jumma now fixed upon is reasonable.
- The out-turn exhibited in the nikasee was of little aid. Where there had been such imperfect cultivation, there could be no index to the capabilities of the pergunnah; money rates scarcely prevailed at all. But following the principles laid down by the Collector, it appeared that the appraisement of Mr. Thornton, conducted in the last settlement, exhibiting the ordinary out-turn per acre of the various crops, would be of singular aid. By the help of Appendices Nos. 1 and 2 of Mr. Thornton's Report, it was possible to form rates according to prevailing prices for the different kinds of soil, which might fairly be taken as average rates. But the proportions given in Appendix No. 1 do not by any means tally with the actual proportions in the Bedoulee Pergunnal. Sugar-cane and wheat, for example, are there grown in smaller quantities. The proportions might have been ascertained with tolerable accuracy from the nikasees; but another difficulty was introduced by the present depressed condition of the pergunnah Meesun, with the return of cultivators, and in better years, may be expected to increase largely. The records of the former measurements, showing the quantities of the then existing kinds of soil, were lost in the mutinies. An estimate formed on the basis of present classifications of soils would prove, it was considered, fallacious; nor did it seem practicable to find an accurate rate on irrigated or unirrigated lands. Cultivation is at present so neglected that no data could be ascertained on which such rates suitable to a settlement of 30 years could be founded.

But, combining the cultivated area as exhibited in the nikasees with Mr. Thornton's tables of out-turn given in Appendix No. 2, a result was arrived at which appeared on the whole more satisfactory. Thus, counting as the out-turn of an acre sown with joar according to the nikasees, the out-turn according to Mr. Thornton's tables (the nikasee showing the relative area occupied by the various crops yearly grown, and the table giving the out-turn per acre of those crops), and applying average present prices, a rate of cultivation to some extent admissible has been obtained.

- It is true that the nikasees are not believed to represent accurately either the nature of the various crops grown, or the area belonging to each. For each field they probably do not, but approximately it will be found that they do. The conclusion, therefore, that they were for this purpose sufficiently accurate having been arrived at, and the nikasees of several years, combined with the appraisement tables, having supplied the rate above mentioned, it was applied to the average of 5 years' cultivation throughout the pergunnah, excepting only the Jat villages. The average of those 5 years (1259-63) was no doubt less than the cultivation may be expected to reach; but it was scarcely less than the cultivated area of the last settlement, and considerably larger than the area cultivated in 1860-61. It was an area nearly as large as experience has proved Bedoulee capable of reaching, and beyond that it was scarcely safe to go; for cultivation among such a population, and with indifferent soil, will extend, at the best, but slowly. Moreover, there is little doubt that the results exhibited in the tables referred to are, on the whole, higher than the present actual average out-turn of the soil in this pergunnah. On a separate sheet will be found the average computed from claims in summary suits regarding Bedoulee during 1264-65-66.
- 14. The pergunnah jumma yielded by this method of rating cultivation gives a malgoozaree rate of 11-3, and a rate on the cultivation of Re. 1-6-5. The malgoozaree rate, strictly applied to the different villages, exhibited, as a rule, a series of jummas which, though considerably lower than their predecessors, appeared rather above the mark. On continued enquiry, however, it was found that land-holders and officials acquainted with the country agreed pretty generally upon jummas nearly similar to those which had been arrived at, as mentioned above. Some villages enjoying a slight superiority of soil, a greater number of wells, or owned by capitalists, might be expected to rise above the average; others certainly fell below it. Where a village, from want of wells, defect of soil, or other similar cause, was clearly below the average, the rate has been slightly lowered. Where the village had fair capabilities, but was at present reduced, the rate was retained, as offering a moderate standard which ordinary labour should reach. Where a village has been raised above the average, it has been with extreme caution. Considerable knowledge of the pergunnah enabled me to distinguish pretty accurately, I believe, between villages inferior in se, and those which were merely distressed from over-assessment. Where grazing land was in excess, as was not unfrequently the case, I have preferred maintaining the standard rate to guessing at the probable income accruing to zemindars from grazing fees. These fees vary considerably, and are not easily realized. In 1266, Ahmud Ali Khan, Nowab of Kurnal, brought in the Mozuffernuger Collector's Court a summary suit to recover from his tenants Rs. 30 for 10 head of cattle, at Rs. 3 each yearly, or 4 annas monthly. was non-suited, the charge being considered irregular.
- 15. With the Jat villages I have interfered little. Their rates were reasonable, their condition prosperous. Cultivation, as regards extent of soil, had reached its limits, and there was no reason to suppose that any plethora of wealth existed among them.
- 16. The people, as a rule, have hailed the new jummas with satisfaction. The annexed tables will show the areas of the present and former settlements, and the other statistics of the pergunnah hitherto proceed. It will be seen that between the former jumma, Rs. 42,656, and the present, Rs. 28,838, a difference of Rs. 13,818 exists.

- 17. Syud Mehndee Hussun, of Bedoulee, and one or two other Syuds, are doing their best to restore the pergunnah to an ordinary state of prosperity. They are again introducing Jâts, and trying to overawe the Goojurs. Meanwhile, the system of Police has been improved, and a Deputy Magistrate is stationed at Shamlee, but 10 or 11 miles from Bedoulee. It is scarcely probable that the Goojurs and Rangurs will at once abandon their old habits; but if they find that the Police are more active, and at the same time that a return to agriculture does not involve ruin and discomfiture, it is to be hoped that they may gradually lean to better habits.
- 18. A considerable amount of balances, both of 1268 and 1269, remain to be accounted for in this pergunnah. These, I take, it will be reported on separately.

CAMP HYBUTPORE: The 15th February, 1862.

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A. COLVIN,
Offg. Deputy Collector.

# APPENDIX I. Statement showing proportion of wells to area.

Proportion of pucka wells to Malgoozaree.	pucka wells to pucka wells to		Proportion of kutcha wells to cultivation.	Total proportion of wells to mal- goozaree.	Total proportion of wells to cultivation.		
1-52	1.36	1-156	1-79	1-29	1.30		

# APPENDIX II.

Statement referred to in paragraph 13, showing comparative average out-turn of the principal crops, computed from summary suits.

Acres.	<b>16</b>	Mr. Thornton's Tables.						
220/ 66,	Maunds,	Acres,	Mannds. Seers.					
1 1 1	Wheat, 6 Barley, 4 Gram, 5	1 1 1	7 15½ 6 34½ 5 7					

Money rents compared with Pergunnah Thannah Bhowun, an average pergunnah, shown by the summary suits, as follows:—

	Bed		Thannah Bhowun.										
Sugar-cane Mundwa Churree			7 3	As. 0 0 14	0	per acre.	Sugar-cane Mundwa Churree	•••			0 8	0	per acre.

#### PERGUNNAH KYRANAH.

Pergunnah when assessed.

This pergunnah was assessed in June, 1863, having been inspected in the cold weather of 1862-63.

2. The pergunnah has three distinct classes of villages, and these I grouped together

Description of pergunnah.

for purposes of assessment. The best are those lying
in the Khadir, the spring crops of which are very
fine. The next are the villages with a poorer soil, but abundant irrigation and ample
population, brought together in the Kyranah Bangur Circle. The last and worst is the
clump of villages lying across the Katha. They resemble in every respect the Bedoulee villages, being as indifferent in soil and cultivation, and as unfortunate in their
Goojur proprietorship. The only large town is Kyranah,—perhaps the largest town in
the district. It carries on a large trade in the export of tobacco, and has a population

of Sheikhs and Goojurs who are well to do. One road comes in from Shamlee, another from Jhinjhana, and a third from Kandlah, and a road leaves Kyranah for the Punjab Ghât. Along this road, and from Kyranah to Shamlee, the chief traffic goes, and it should, if possible, be metalled, being naturally sandy and heavy. The villages of the pergunnah are owned almost entirely by Goo-

jurs, and are, as usual, chiefly Bhyachara. The former assessment was very light. Had it not been for fear of too rapid an increase in the demand, I should have increased the jumma considerably more than I have done, for in every pergunnah where an increase, though fair even with due regard to outlay, was excessively large, I have gone somewhat below it, believing that a sudden shock to the landlords, and change in their means of subsistence, would inevitably lead to distress, and degrade them from the position of comfort and independence in which I found them. Even the Trans-Katha villages, ill-cultivated as they appear, had been reasonably and fairly assessed, and were, as a rule, well off, and afforded in that respect a strong contrast to the Bedoulee Pergunnah. I may add that the rates of the old settlement on their malgoozaree and cultivated areas answered to my new Bedoulee rates—an omen, I trust, of the future prosperity of that pergunnah.

- 3. The average canal irrigation at the last settlement was 818 acres, as against 6

  Canal irrigation of last and present villages; and at re-settlement by the canal papers, settlement. 10,078, as against 17 villages.
- 4. I made three fresh circles, as shown in the accompanying map, and placed a few villages in the Shamlee Circle. The rates I formed, except in the Rana Muzra Circle, where I adopted Mr. Thornton's Bedoulee rates, were altogether new, formed on the same principle as those detailed in paragraph 4 of the Shamlee Report. I could find no former rates, or any mention of the pergunnah, as a whole, in the printed Settlement Reports, though I believe Sir H. Elliot settled it. It was the only pergunnah in which I had not that assistance. The rates I adopted were as follows:—

```
Meenu
                                   Roslee
                                            Roslee
                                                    Dakur
                                                             Dalur
                       unirrigated. irrigated. unirrigated. irrigated. unirrigated. unirrigated.
               irrigated.
               R. A. P. R. A. P. R. A. P. R. A. P. R. A. P. R. A. P. R. A. P. R. A. P.
                                 2 0 0
                                         1 6 0
                                                   1 4 2
Kyranah Bangur, 3 0 0
                        2 8 9
                                                           1 0 2
                                                                     0 15 6
                                                                             0 14 11
                                                   1 10: 3
                                      0
                                         1 14 0
Kyranah Khadir,
               3 10 0
                        3
                          0
                             .
                                   6
                                                            1
                                                               1 0
                                                                     0-15
Rana Muzra
               2 12 10
                        1 15
                             2
                                 1
                                    8
                                      31 1 5 81
                                                   1 4 2
                                                            1
                                                               0
                                                                 2
                                                                     0.15
                                                   1 14 114 1
                                 3 0 Q
                                          2 1 2
Shamlee
                                                                     1 0 3} 0 12 0
                              1.—The former demand
                                                                        = Rs. 49,571
                              2.—The demand at deduced revenue rates = Rs. 60,842
 Former and proposed demand.
                              3.-My demand ...
                                                                        =Rs. 52,687
```

The difference between 2 and 3 is owing to the causes detailed in paragraph 2.

Rates of the new demand on each circle;

5. The rates of the new settlement for each circle, and for each caste within each circle, were as follows:—

Malgoozaree Rate. Cultivated Rate. Circle Kyranah Bangur ł 1 12 13 Circle Shamlee 1 12 11 1 10 1 15  $\bar{0}$  13 11 $\frac{1}{2}$ Circle Kyranah Khadir ŀ Circle Rana Muzra 0 11 1 1 Pergunnah 1 0 9.3 1

And on each caste in each circle.

Circle Kyranah Bangur.

All Goojurs.

Circle Shamlee.

Circle Shamlee.

Circle Rana Muzra.

(6 villages) Goojurs, 1 11 2½ 1 15 2 All Goojurs.

(1 village) Brahmins, 2 1 2 2 3 1

6. It is unnecessary to dwell further on the assessment. I followed the principles laid down in my Thannah Bhowun Report, and allowed myself to deviate to any

extent that seemed necessary from the rates when occasion arose, explaining such instances in the miscellaneous remarks. I have faith in rates as a general guide, but the impressions received from acquaintance with the pergunnah give the Settlement Officer confidence in departing from these rates, and a power of discriminating between their use and abuse which he could not otherwise attain. Not, however, that this acquaintance alone, without rates, will enable him, as is sometimes said, to form a demand; and if it did, it would not give him any ground on which he could recommend the adoption of his jummas; for a man's local knowledge may outrun his discretion, and nothing but the test of rates can check the shortcomings of the judgment.

Increase in demand owing to the 7. The increase owing to the canal, as shown in the statement accompanying, is—

- 8. The Lumberdars have decreased from to , and the Putwarees from Lumberdars and Putwarees.

  to . The highest pay is and the lowest
- 9. Balances have been separately reported on. Separate reports have also been written in the case of two Goojur villages whose case was peculiar and abnormal.
  - 10. With the exception of those villages, all the jummas were promptly taken up.
- 11. Transfers in this pergunnah amount to less than one-eighth of the whole area,

  Remarks on statements submitted —the price of private transfers being about 8 years' with the report. jumma, and of transfers by order of Court about 7 years' jumma. Of these transfers, rather more than one-third are into the hands of mahajuns; the rest amongst miscellaneous eastes, and chiefly amongst the caste of the particular transferrer.
- 12. The cultivators with right of occupancy have increased from 17 to 648 in the villages of which the records are forthcoming, the average holding being 5 acres. Tenants-at-will are much as they were, and cultivating proprietors are 1,484, as against 1,331, holding here, as elsewhere, about 10 acres.

Mozuffernugger:
Dated the 8th January, 1864.

A. COLVIN, Settlement Assistant.

Memorandum on Pergunnah Bedoulee (supplementary to the report already submitted).

In submitting the No. II. Statements and other statements of the Bedoulee Pergunnah, I think it necessary to add a few words to the previous report.

- 2. It will be seen that in the Miscellaneous Remarks the jumma at the "average malgoozaree rate" is always given, and the extent to which the jumma departs from that rate is the chief object of explanation. The difference between the proposed jumma and the jumma at "deduced revenue rates" is rarely touched on. My grounds for taking the malgoozaree rate as the basis for my assessment are given in my first report. Having taken it as a basis, it of course became necessary for me to explain more especially, in every instance, the causes of a difference between the jumma afforded by that rate and the proposed jumma.
- 3. The circle rates of Mr. Thornton, when modified on the half-asset principle,

  were not high;—they represented, that is, the capabilities of the land under ordinary management,

  but they did not represent the out-turn of the land under Goojur management. It

would have been possible to frame rates that would approximately show such an outturn, but the cultivated area of 1860 was, in consequence of the disturbance of 1857, of assessment too high for Goojurs, and of draught, so reduced that the kinds of soil to which such rates would be applied bore an abnormal proportion to each other. It would have been possible to anticipate an increase of cultivation, but I was not willing to guess at an increase of irrigation arising from the return of cultivators and renewal of agriculture. Similarly, I believe it hazardous to guess at the future quantity of manured land. On the other hand, it appeared injurious to Government to assume the existing quantity as representing a fair proportion.

- 4. Under these circumstances, I believe I did right in taking the actual cultivated area of ordinary seasons for the basis of my assessment, and in adapting to that area, and the kinds of crops shown by the nikassees to have been grown on it, the average estimate given in Appendix 2 of Mr. Thornton's Report.
- 5. It may be objected that this form of assessment does not show to officers coming afterwards a fair rate at which they may value land in cases where Government may require it; but, under Circular X., June 16th, 1854, the cultivated rate of the jumina forms the basis of such valuations. Besides, as has already been said, the circle rates of Mr. Thornton are not, as representing the capabilities of the land, too high, and will be sufficient in such cases.
- The result has been a very great reduction.

Demand at deduced revenue and other rates, and proposed demand.

My revised jumma, it will be rates, and proposed demand. remembered, is

= Rs. 28,931

The jumma at Mr. Thornton's rates would have been = ,, 29,479 But this is calculated only on the present reduced The jumma at the average malgoocultivation. zaree rate (and for the Jat villages at the circle 'rates) would have been

= Rs. 27,431 Goojurs.

,, 5,685 Jâta.

Rs. 33,116

I have not shrank from the reduction, and, after two years' further experience, I believe that the new pergunnah jumma is not one bit Principles of reduction in this assesstoo low. I adopted as my test the following paragraph from Directions for Settlement Officers :-

Para. 188.—"When the zemindars are themselves the criminals, as is " sometimes the case with certain classes, -such as Goojurs, Mewatees, and Mhairs, -46 their reclamation from these vicious courses, and their future pursuit of an honest "Livelihood, greatly depend upon the Settlement Officer. Villages belonging to such 44 persons will generally be found poorly cultivated, nor ought an assessment propor-"tionate to the capability of the soil to be fixed upon them. If the land of such person " be moderately assessed, and his interest in it clearly defined, he will not be slow in "finding out that his profit lies more in the improvement of his property, than in " neglecting it for the hazardous pursuit of plunder. This may not be at once the case. "It will require continued vigilance on the part of the Magistrate, and perhaps some "examples of destruction of property by sales of estates for arrears of revenue. " before the lesson be learned. But the labours of the Magistrate will be lightened, " and the force of the examples increased by judicious arrangement on the part of the "Settlement Officer. If the assessment be too heavy, or rights undefined, the pro-" gress made in the moral reclamation of the people cannot but be slow."

The picture that I have drawn in the previous report of the state of the Mr. Edwards' remarks on the per- pergunnah is but a faint resemblance of the reality. Mr. Edwards, in the following passages of his notes (a copy of which is in the Board's Office), gives a more graphic sketch. I would premise that where he speaks of the pergunnah as over-assessed he apparently means relatively over-assessed, and that the same qualification must be placed on my remarks in my former report.

- "This pergunnah is perhaps the worst in the district. The soil is generally If rain falls in excess, the crops rot in the ground, and the land becomes "sticky swamp. If, on the other hand, there is a scarcity of rain, it yields no return; "the seed fails to germinate. Efflorescence of 'reh' prevails in many parts, and is, "I fear, on the increase." ..... "A zemindar regards sugar-cane as his sheet-anchor; "but in this pergunnah only a very few villages can grow it, owing to the inferior "nature of the soil."....." The settlement, it is evident, broke down in several villages " at least 12 years ago, since which time village has propped up village; an adjoining " community, if thriving, has been called upon to aid its sinking neighbours in meeting "their engagements. The arrangements were left in the hands of the Tehseeldar, who " portioned out the lands to be cultivated partly among the people of the village, but "the greater portion among those of the surrounding mouzahs, each being hel "liable for a quota of the Government revenue. This strange and irregular practice "appears to have been generally acquiesced in by the people, and it is difficult to see " how, without revision of Government, the jumma could otherwise have been realized, inas-"much as the severity of the assessment virtually precluded sale or farming leases. No-"body would have anything to do with rillages where there was an annual deficit, where "the soil was so inferior that the land which yielded crop one year must be left fallow the "next, and where the population was mainly, if not entirely, Goojur, and scanty in " number."
- 10. Other passages similar to the above might be added, but enough has been given to show Mr. Edwards' opinion of the pergunnah. Among other things, he notices the impossibility of getting any other caste to live in it.
- 11. It should be noticed that the whole pergunnah does not contain a single market, and that many villages have not only bad roads, but, during a great part of the year, swollen streams between them and their markets.
- 12. It should also be observed that the whole reduction of jumma is not entirely amount of reduction due to half-owing to bona fide reduction. The former jumma was Rs. 42,656, representing at \frac{3}{3} assets a jummabundee of Rs. 63,984 (and the jummabundee has certainly not increased, nor, as will be seen from my Report on the Thannah Bhowun Pergunnah, have prices risen), the jumma of which (after deductions for cesses) is at half assets 31,093. My jumma, after deductions for cesses, is Rs. 28,838, leaving only Rs. 2,255 actually due to bona fide reduction. This much must be put down to the miserable condition of the pergunnah.
- 13. At the same time it cannot be concealed that the great difference between the former and the present demand has created much disgust in the neighbouring pergunnahs. Some of the men of these pergunnahs affect to believe that my jumma is unnecessarily low, and it is probable that they will inoculate with this belief future officers ignorant of the circumstances of the case, and amazed at the lightness of the demand. I am certain it is not, under the circumstances, considering the nature of the soil, the paucity of cultivators, and the vile laziness of Goojurs, too low. But it is natural that honest men should feel envious at the success of a bad reputation. The Goojurs have, as all men see, got the better of us. They have driven us to confess that rates suitable to land must be abandoned when land is held by thieves. They have triumphantly shown to their more honest brethren that rascality, and not honesty, is the best policy. My own wish would have been to assess all villages owned by Goojurs at fair rates,—i. e., to maintain the jumma as a rule, and sell up and drive out remorse-lessly all defaulters. The instructions in Directions for Settlement Officers, however, would not admit of this. Villages owned by honest men, but cultivated by Goojurs,

deserve all indulgence, as the landlords are driven against their will to bad cultivation, and to assess such villages fairly would ruin the landlords without punishing the Goojurs.

- 14. Transfers, it will be seen, have been few. Land in Bedoulee, as has been pointed out, is avoided. They are chiefly amongst the occupants themselves, and the price paid does not equal two years' jumma.
- 15. The proportion of cultivated land, and the proportion borne by the inferior crops, as compared with the other pergunnahs, will prove interesting. The smallness of the population may also be noticed. This is chiefly due to an assessment higher than Goojurs would pay, and consequent desertion of the land; partly to the drought of 1860-61.
- 16. There were 166 Lumberdars at the last settlement; there are now 119. The Putwarees' Circles have been reduced from 23 to 18; the highest pay is Rs. 140, the lowest 81.
- 17. The population, as stated in the papers of measurements of village sites, is 219 per square mile, as against 283 in page 110 of Christian's Report on the Census. It is about half the population of average pergunnahs. The whole area is now entered at 87 square miles, as against 96 in Christian's Report, the difference being due to the transfer of certain villages, separately reported on, to Kurnal.
- 18. A separate report on the propriety of making the present settlement of this

  Separate report submitted regarding pergunnah permanent has been furnished to the Colthe permanent settlement of this pergunnah.

MOZUFFERNUGGER:

The 8th January, 1864.

A. COLVIN,
Settlement Assistant.

WITH reference to making permanent the revised demand for Pergunnah Bedoulee, Mr. Colvin remarks:—

"Bedoulee is a pergunnah inhabited either by Goojurs, or for the most part by castes of a similar kind. The greater part of the land is owned by these men, and almost the whole cultivated area is cultivated by them. Owing chiefly to their indolent habits, and their indifference to agriculture, the pergunnah is in a very backward state of cultivation. More than one-half is uncultivated; hence the Government demand in the present settlement has fallen at a very light rate. It was believed impossible, unless the ownership and cultivation of the greater part of the pergunnah were transferred to other hands, to impose other than a comparatively trifling demand. The assessment is, perhaps, three-fifths of what, ceteris paribus, it should be.

- "2. Under these circumstances, it is questioned whether the present revised assessment should be declared permanent.
- "3. There are, I think, two considerations here: the one whether Government, consistently with a due regard to its rights and interests, should render permanent so exceptional an assessment; the other, whether a tax so relatively light with regard to other land-owners can be justly declared permanent.
- "4. With regard to the first. The present assessment is no doubt very light, but is this any reason for supposing that a temporary settlement would enable Government hereafter to increase the demand? The result of the last temporary settlement has been a reduction of Rs. 13,000 in the demand. I know of no instance in point. The Goojurs in Kandlah have certainly increased their cultivation; but they are peculiarly placed, the canal irrigating every inch of their soil. Whether a light

assessment, without extraneous advantages, will have a similar result, is, as far as I know, matter only of conjecture. As a rule, I have found in this settlement that where no concurrent advantages existed, an assessment light in itself had not in the case of other indolent castes increased cultivation. If the Goojurs and Rangurs were men who look to agriculture for a livelihood, I should suppose that a light assessment would extend the cultivated area, and improve the cultivation. But their chief support is from cattle, and this employment at once supplies them with a motive for maintaining large tracts of uncultivated land, and materially diminishes their necessity for bringing land under the plough. Nothing, I believe, would outweigh this motive but some agent not only bringing greater profits than cattle-stealing and cattle-breeding, but profits sufficiently great to supplant the old pleasant habits of indolence and theft by the laborious habits of toil and agriculture. Such an agent is canal water; but in Bedoulee no canal water exists. A light assessment may make agriculture more profitable than cattle, but not sufficiently profitable to destroy old habits and make these men industrious. Hence it would, I think, be practically inoperative. this view, a temporary settlement would bring us no nearer raising the demand, while it would hinder benefits which permanency can alone fully guarantee.

- "5. But admitting that, under the present settlement, cultivation will increase, is it desirable on that account to leave the settlement open? In Bedoulee there is no question of any Government outlay. No money has been expended on public works in Bedoulee for which Government might fairly demand a return; nor is the pergunnah peculiarly situated in any other respect. Hence the question simply is whether Bedoulee, assessed lightly, because inhabited by indolent and worthless castes, should, in the prospect of increased cultivation, be admitted at once to the advantages of a permanent settlement. The principle on which such a settlement is founded is that Government is willing to abandon a certain amount of direct land revenue, because by so doing it can the more encourage industry and interprize, promote order, and increase the land-holder's interest in his land. Would the increase of revenue under a temporary settlement outway the indirect advantages of a permanent demand? It appears to me that, under the circumstances, and especially with regard to the great danger of discouraging these castes, the increased revenue cannot for very many years be much, and that the matter on financial grounds, scarcely admits of discussion. But would a permanent settlement among such a people bring the benefits which under ordinary circumstances are assumed to be peculiar to it? Not in the same degree. But it would have a tendency to do so; and I think that such a tendency is more precious than the small amount of enhanced revenue the Government could hope to obtain. But might not such a tendency co-exist with periodical moderate enhancements of demand? Under ordinary circumstances to some extent, but, among a people careless of comforts and averse to agriculture, with difficulty; while, viewed as a punitive measure, a temporary settlement would be little felt by the Goojurs, and would frustrate other ends, thus recoiling on the Government.
- assessment is declared permanent, there is no doubt that the average on the Bedoulee land-holder, after eliminating all disturbing elements, will be far less than on his neighbour in the adjacent pergunnahs. But it has already been seen that there is no ground for supposing that a temporary settlement would reduce the inequality, and allowing that the inequality might, under a temporary settlement, be reduced, does this consideration outweigh all others? If among such a people it could be hoped that a temporary settlement equalizing the land tax, combined with the indirect advantages of a permanent settlement, could be secured, there could be no objection to a temporary settlement; but this being highly improbable, is the absolute equality of the incidence of the tax to be preferred to the chances of civilizing and reforming a thieving and blackguard community? As regards Government, I think certainly not, not, on closer inspection, as regards the people. An honest and industrious man

paying Re. I an acre may feel indignant at the rogue who only pays 10 annas; but it is his interest rather to see the rogue paying 10 annas permanently and molesting no one, than to find him paying 13 annas acreage liable to enhancement, and retaining his predatory and unsettled habits. It is no doubt possible that he will pay lightly and be none the less a thief, but the light permanent payment, as has been already said, will have a tendency to reform him. Hence, though at first sight the incidence of the tax seems unfair, on closer inspection the interests of all parties will, I think, be found identical.

- "7. Both as regards the interests of Government and that of the community at large, then, it seems to me the Bedoulee settlement should be rendered permanent.
- "8. It must be remembered (though, as the consideration is scarcely material, it has not hitherto been urged) that there is a class of Syud and other proprietors in Bedoulee who deserve the greatest consideration. An assessment high on account of the cultivators, shortcomings has broken and in many cases ruined innocent landlords. These men have made large payments to Government, and have received no adequate profits. Now they are offered some chance of a fair return. Any increase in the demand arising from their efforts cannot be too strongly deprecated. As no other caste will come into the pergunnah, these land-holders can rarely work through other than Goojur or Rangur cultivators. The difficulties and expense attending any increase of cultivation in their villages are enormous, for men who will not work for themselves are little disposed to work for others. This, no doubt, would be special matter for the consideration of a future Settlement Officer; but I mention it here as showing that the increase to Government revenue from a temporary settlement in this pergunnah is affected by various causes."

(True copy)

S. N. MARTIN,

Collector.

#### PERGUNNAH THANNAH BHOWUN.

PERGUNNAH Thannah Bhowun is bounded on the north by Gungoh and by Rampore (both pergunnahs of the Saharunpore Dis-Description of pergunnah. 901 in Christian's Report on the trict), on the south by Pergunnahs Shamlee and Census, p. 110. Bugra, on the east by Pergunnah Churthawul, and on the west by Pergunnah Jhinjhana. It covers 88* square miles. It has altered its limits since Mr. Thornton described it in the Saharunpore Settlement Report (paragraph 16), but the account there given of it is generally correct. Towards the west it is intersected by the Kirsunnee, a stream running here between high banks. Beyond the Kirsunnee lies the Eastern Jumna Canal. To the extreme west the soil is naturally good, but to the east of Kirsunnee the land is high, and there is a paucity of wells. In these parts and towards the south of the pergunnah the land is open, rather thinly inhabited, and not thickly cultivated. About the canal, mango groves are frequent, population abundant, cultivation universal. The chief crop grown in the pergunnah is wheat, occupying, as will be seen from Statement No. of the whole cultivated area. Rice is grown by a few villages, such as Yarpore, Kadurpore, Janeepore, and Umbeytah. The chief trees are, as usual, the keekur, sheeshum, and jamun. About the north-west, in the villages Ahmedpore, Khanpore, and one or two others, dhak jungle is prevalent. Large tracts of "cosur" lie on either side of the canal at intervals on its whole course † 555 in Christian's Census, p. 110. throughout the pergunnah. The population† (405 Difference probably due to mutiny, to the square mile) is chiefly Rajpoot and Jât: but and exodus of 1860 61. Caste of inhabitants. See paragraphs 3 and 8. there is a good sprinkling of Pathans and Sheikhs, descendants of former maafeedars. The Rajpoot are a violent, quarrelsome set of men, badsubjects and bad neighbours. The Jâts, as usual, are industrious, frugal, and orderly,—troublesome only by reason of their love for small disputes and bickerings. The Pathans are of the family of Nujeeb-ood-dowla, the Minister of Shah Alum, and vicegerent of the Abdallee Ahmed Shah. Further than this one does not care to trace their origin. Their character has little in it to excite interest, or their career to reward curiosity. Profuse, rapacious, haughty, mean, intriguing, and indolent, they are worthy inheritors of the proverbial "Pathanee Mizaj."

- There is but one large town in the pergunnah,—viz., Julalabad, the headquarters of the Pathans. Thannah Bhowun, as will Principal towns in the pergunnah. be presently mentioned, has been ruined by the disturbances; while Loharee, formerly a town, is now little more than a village, and Ghousgurh, once the most important of all, and to be found in almost every map of India, is a heap of ruins, and inhabited by only a few Rors, who squat in an angle of the old walls. Julalabad is the seat of a considerable exchange, and has a market inferior only to the neighbouring town of Shamlee. The folly of the Pathans, who grasp at extortionate fees, has lessened the trade, but has not yet succeeded in driving it away. Thannah Bhowun has only a small market for agricultural produce. There is a similar market at Loharee, and a leather market at Gurhee Abdoolla Khan. At Thannah Bhowun is a Police station. A fair road runs by Thannah Bhowun to Julalabad and Saharunpore from Meerut vid Shamlee. Another road goes off to the east to Mozuffernugger, but it crosses the Hindun-in the rains a swollen torrent-by an unbridged ford. Another road goes via Julalabad to Teetron, and a new road to Jhinjhana in the south-west is in course of making. The chief traffic is on the Shamlee-Julalabad road. The sugar-cane of the pergunnah finds its way mostly by this road to Shamlee, and grain, pepper, salt, dyes, and leather go up this road to Julalabad.
- The pergunnah is notorious in Mussulman history as the home of the infamous Gulam Khadir. Here his grandfather Decay of the Mussulman landlords. built "Ghousgurh," within a few fields of the Pathan town of Julalabad, and the Sheikh city of Thannah Bhowun. It was the southern fortress of his jagheer of Saharunpore. In Zabita Khan's time (the son of Nujibcod-dowla) the town was more than once overrun by the Mahratta hordes. A Mahratta maafeedar still holds the village of Manukpore, hard by. After Gulam Khadir's death the town was rapidly emptied. One of Perron's deputies tried to rebuild it. but he was recalled to Delhi by the approach of Lord Lake. Since then Sikh horsemen have harried the country up to the deserted gateways, and nothing now remains but high mud walls, scattered bricks and exposed foundations, and the minarets and domes of a decaying mosque. The Government has recently given to a colony of Rors the zemindaree right to the enclosure within the walls. And so there was an end of the Pathan city. Similarly, but from different causes, the town of Thannah Bhowun is fast decaying. Its Kazee and his brother Sheikhs who owned it rebelled, as is well known, in 1857. A short struggle, a successful repulse of our troops, a cruel massacre in a neighbouring town, a second advance, and hasty flight and dispersion, summed up the history of their rebellion. Their town was mutilated and defaced, and their lands, for the most part revenue, free, were confiscated. Now Thannah Bhowun is a city of empty houses. A few Sheikhs prowl about their old mohulla. The Rajpoots, the original zemindars, still squat about the out-skirts, but there is scarcely a house in the Mussulman quarter which is not Government property. And so here, as elsewhere, the Mussulman is dying out. First Ghousgurh, then Thannah Bhowun, and the Julalabad lands covered by a brotherhood of needy Pathans, keep with difficulty from the hammer.
  - 4. A line of revenue, free villages, as will be seen from the map, runs across the pergunnah. The owners are Pathans, a Mahratta (Manukpore) Sheikhs and Beloches.

5. As to the settlement. Boundary disputes were few in this pergunnah, and those easily settled. The period of measurement, &c., has been detailed by the Collector. The assessment was on the following principles.

6. It has been stated in paragraph 1 that the pergunnal limits have considerably changed since Mr. Thornton made the Saharunsment. Assessment. Classification of villages. pore settlement; hence the rates then formed were open to question. But, further, he had only one set of rates for the whole pergunnah, and the pergunnah is made up of two quite distinct classes of villages. My first business was to classify the villages. I divided them, as will be seen by the accompanying map, into two circles. The classification was general. The villages on and about the canal formed one class, in which the better kinds of produce were extensively grown, the soil was naturally fertile, and the population abundant. The villages on the east side of the Kirsunnee and immediately on its west bank were grouped as a much inferior class. These classes I formed from personal knowledge of the pergunnal, neither in this nor in any other step taking much counsel with officials. Ascertainment of deduced revenue The revenue rates had then to be fixed. In this pergunnah rent is paid (when it is paid at all, for the villages are chiefly Bhyachara) chiefly in kind. Some crops—such as sugarcane, cotton, maize, churree, and indigo-pay a money rent per beegah. The classification seems to be according to the expense attendant on the cultivation of the crops, the most expensive paying a money rent equal to about one fourth of the gross out-turn, the less Difficulty of finding trustworthy expensive a rent in kind equal generally to two-fifths of the gross out-turn; but in good villages amounting to one-half and in indifferent villages falling as low as one-third. In some instances a general beegahrate on cultivation existed, irrespective of the kind of crop grown; but these instances were not sufficiently various to admit of induction. The variety of soils, the circumstances under which the rate was fixed, the facilities for irrigation, could not, I found, be so generalized as to enable me to apply any such rates, or average of such rates, with certainty. Thus, in Mouzahs Munhut and Yarpore, I found cultivators paying Rs. 5-4-0 per acre for very dissimilar lands, and in Mouzah Oosmanpore only Rs. 3-14-0 per acre for land of a quality superior to either of the above. Where a beegah rate is not customary, it is rarely an index to the capabilities of the land, nor can it be made the basis of calculations for the future. A biswahdar whose right of ownership has been sold, a body of biswahdars who under similar circumstances have been powerful enough to make terms with the purchaser, -in such cases a low beegah rate is often found. But, under Act X. of 1859, as there can be no certainty of the continuance of such a rate, so there is no ground for making it the basis of assessment; hence the only course is to frame a set of rates calculated on the basis of

7. After classifying the kinds of soil under the four heads* known in this district,

* I.—Meesen (Manurel: cane, cotton, tobacco, vegetables, &c).

II.—Rosles (Joar, churree, wheat, barley, vetches, &c.).

III.—Dakw (Rice, gram).

estimates of the actual produce.

IV.—Bhoor (Churree, vetches, wheat, &c).

Method adopted of calculation of rates for kind of soil.

the ratio occupied by each crop in each kind of soil was ascertained from the measurement papers. The pergunnah in 1860-61 was in an abnormal state. The canal villages were growing wheat in unusually large quantities. In the other villages cultivation was nearly confined to the vicinity of the wells, but there, too, the better crops were being grown in unusual prog worked to an unusual amount. Hence I lowered the wheat and maize—by one-fifth, and added the differ

portion, and the wells were being worked to an unusual amount. Hence I lowered the amount of two principal crops—wheat and maize—by one-fifth, and added the differ ence to bajra and churree. To this ratio thus obtained I applied, as far as money rents went, the average money rents of the last 10 years, and to the other crops a set of estimates founded chiefly on local enquiry. I went over several files of summary suits, but in the first place I could rarely ascertain whether the land in question was irrigated or unirrigated, and very frequently the estimates themselves were disputed by the parties,

and evidently excessive. The Kham Tehseel papers were of more assistance, as giving me a fair acre average out-turn for each kind of crop,--several villages in the Kheaoree Circle having been held kham. The result was not, however, satis-This process, which answered very well in pergunnahs assessed the Peculiar difficulties owing to abnor. following year, was injured in 1860-61 by the unusual state of the crops, and the undue abundance of the more remunerative, especially wheat. It will be understood that cultivation was confined to irrigated lands, and on them principally to the better crops. Hence, although one-fifth had been reduced from wheat and maize, the average of the better crops was evidently in excess. The nikassees could not help me, for, although they showed the ratio of crops in ordinary years, they did not show them classified by soils. willing to adopt rates which seemed too high (the averages of crops on each soil and rates formed by me in Circle Aurungabad, besides the rates actually adopted, are given at the foot of this report), I turned to Mr.

Rates finally adopted.

Thornton's Mozuffernugger rates for the neighbouring Circles of Bhynswal and Shamlee; and, after applying them to several villages, and comparing their results with the other processes subsequently detailed, I felt so satisfied with them as to adopt them, only reducing them to half assets. were applied to the total of each kind of soil for each circle,—i. e., the Bhynswal to the Aurungabad Circle, and the Shamlee to the Kheaoree Circle,-giving respectively a circle demand of Rs. 22,257 and Rs. 33,938. This, again, and the cultivated area of the circles were divided into each other, and gave an average rate by means of which I re-distributed the circle jummas over the individual villages. The soilrates applied to each village were then compared with this jumma. An abstract of the nikassees was also made for five years of the last settlement. The rate given by the total of the area cultivated by crops paying in kind, and the value of these crops as inserted in the nikassees, was applied to the area cultivated with such crops in the khusrah,—the area cultivated by crops paying money rents being multiplied by those rents, and the two results added together. This estimate was always low. warees, I believe, in this district register accurately the kinds of crops grown; but the amount grown is quite untrustworthy. Similarly, the out-turn of five years according to the appraisement table in Statement 1, Appendix to Mr. Thornton's Mozuffernugger Report, was substituted for the amount grown as registered in the nikassees, and the rate thus obtained applied as the rate obtained from the nikassees had been applied. in average villages, was very useful, giving a demand below which, without special reasons, I never suffered myself to fall, and often affording an index to the real capabilities of the village. In almost every village in the Kheaoree Circle there was a good deal of land thrown out of cultivation by the drought of 1860-61, and by the disturbances of 1857-58. As a rule. I took into calculation, at the average cultivated rate of the circle, all land in excess of the proportion borne by the circle, culturable and recently abandoned of the last settlement. The nikassees gave me little aid, for they did not distinguish accurately between "culturable" and "recently abandoned." So, too, in applying the soil-rates to each village, the average amount of manured land per well in the circle was preserved for each village within it. This relieved the industrious, and took cognizance of the lazy. It will be seen from the Miscellaneous Remarks that when I considered it necessary I have departed to a large extent from the results of the rates. which were only average; but they have been the basis of my assessments.

Comparative demand of deduced revenue rates, and as finally fixed.

The former jumma of the pergunnah was Rs. 56,244; the jumma of the pergunnah at deduced revenue rates is Rs. 55,664; I fixed it at Rs. 55,802.* The former demand had been fair; but in 1860 the pergunnah was much reduced—the drought and disturbances had caused a great exodus of cultivators: hence my demand was perhaps a little below what the pergunnah is equal to.

But if I had put on a full demand, few villages could have paid it for the first four or

The mortgagee's lien on the confiscated maafee rights of Sohunjnee Comurpoor has since been removed. Rs. 807 has thus been added to the annual pergunnah jumma.

five years, and the effect would probably have been to hinder the return of absentees, if not to promote the exodus.

- 9. It seems unnecessary to give further details regarding villages here, for they village details will be found in will be found in the Miscellaneous Remarks. I have here shown the principles on which my assessments were made; the details of each particular village will be found in those remarks.
- Agreements signed without reluc. patches are held in Kham Tehseel till sanction for sale is received, applications having been duly submitted.
- 11. The decrease from the former jumma must be entirely attributed to the Decrease from former jumma entirely owing to half-asset principle, prices not having risen. half-asset principle is in no way balanced by, any increase of prices. The following tables, for the accuracy of which I can vouch, show the average prices of the last twenty years in the markets of Shamlee and Kyranah, the principal markets in the neighbourhood. They are, it must be observed, harvest prices.

•	From	•••	1841—45.	185559.	1841—50.	1850—59.
	Shamlee.		Mds. Seers.	Mds. Seers.	Mds. Seers.	Mds. Seers.
Wheat Barley Gram Mussoor Sirson Rice Chahora Moong Oorud Mote Bajra Joar			0 32 pcr Re. 1 3 " 0 35 " 0 21 " 1 1 " 0 35 " 0 28 " 0 27 " 0 33 " 0 35 " 0 36 "	0 36 per Re. 1 16	0 31 per Re. 1 4 " 0 34 " 0 34 " 0 21 " 1 0 " 0 35 " 0 28 " 0 28 " 0 33 " 0 36 "	0 36 per Re. 1 13 " 1 4 " 0 39 " 0 24 " 1 8 " 0 37 " 0 36 " 0 24 " 1 2 " 1 3 "
Wheat Barley Gram Mussour Sirson Rice Chahora Moong Oorud Mote	Kyranah		0 31 per Re. 1 3 " 0 34 " 0 33 " 0 21 " 0 38 " 0 36 " 0 30 " 0 30 "	0 35 per Re. 1 14 " 1 8 " 1 7 " 0 23 " 1 1 " 1 0 " 0 35 " 0 36 " 0 39 "	0 31 per Re. 1 2 " 0 33 ", 0 33 ", 0 20 ", 0 37 ", 0 36 ", 0 29 ", 0 33 ",	0 34 per Re. 1 11 " 1 4 " 1 3 " 0 24 " 1 0 " 0 39 " 0 30 " 0 30 "
Bajra Joar Mukkee	 		0 34 ,, 0 35 ,, 0 37 ,,	0 37 ,, 0 39 ,, 0 39 ,,	0 33 ", 0 35 ", 0 36 ",	0 36 " 0 38 " 0 39 "

12. The decrease of prices cannot be attributed to the increase of cultivation,
Supposed causes contributing to preserve former prices.

for in Thannah Bhowun, as in other pergunnahs, it will
be seen that cultivation has not increased; but the
amount of wheat and the other better classes of cereals grown must have been greatly
increased by the extended area of canal action; and this may have something to do

* At the foot of this report will be found a table of cost of carriage, given me by Lalla Oodeyram, the well-known Soukar of this district.

with the question. And, meanwhile, the great cost of carriage has certainly prevented the mahajuns from sending corn to markets where the ordinary price was higher than that prevailing here.* They could

only send it short distances, and within short distances the price was generally much the same as here, for since the last settlement no access to fresh and important markets has been opened up: hence the increased amount of corn has been sold at a lower price in the original market. With an extension of railways, however, the prices of cereals will in this district certainly rise. Here there has hitherto been a glut of

produce, and the same system of carriage which fills other markets will diminish the

Prices as affecting a permanent settlement. abundance of this. If a permanent settlement is
sanctioned, without any stipulation as to a periodical
reconsideration of the value of money, the jummas of many districts will before long
bear an altogether inadequate ratio to the value of the produce.

13. The settlement has, I think, been a lenient one. The lesson of 1860-61 was not lost on me. An example of the utter inability, as a rule, of the village communities in an indifferently-irrigated country to meet a bad year from the profits of good years, or from their credit with their bankers, had weight with me when fixing the demand for the country between the Hindun and Kirsunnee. On the canal the chief danger is over-cropping. The land is rarely allowed to rest. Cotton, for example, is sown in a field in the autumn, and wheat follows in the next crop; churree will be sown the following autumn, and succeeded by wheat; then again cotton as before; and so on. The only crop for which land is rested is sugar-cane, and for that not more than one season. In ordinary villages this system is kept within bounds, not more than 10 per cent. of the cultivated area being "do-fuslee," as it is called—that is, grown with a crop both seasons; but on the canals it is carried to excess, and the cane is very much deteriorated.

Every village personally inspected.

14. It may be here mentioned that I have visited every village in the pergunnah,—many of them over and over again.

There was little trouble in fixing the rent-rolls after assessment. The estates are chiefly owned by village communities, and rents, when paid, are either in money or kind, as has been already remarked, according to the nature of the crop; and these rents prevail so widely that there is no difficulty in fixing on the proportion or sum which shall be paid to the landlord. Imperfect divisions have been carried out in a few instances, and the division of the confiscated lands in Kusbeh Thannah Bhowun has been separately reported on.

Number of Lumberdars.

- 16. There were 158 Lumberdars at the time of re-settlement; there are now 126.
- From Statement No. it will be seen that, even including the recently-abandoned land, the cultivated area has not increased since Cultivated area not increased: probable causes of this. 1840. This is unsatisfactory. There are probably three causes,—the first, that much of the so-called culturable land is rain land of a nature which at prices would not repay cultivation (this has been frequently mentioned in the Miscellaneous Remarks of the No. II. Statements; secondly, such of it as might repay cultivation would only do so after wells had been dug, and the land-holders (whether so-called bunya capitalists, or Mussulmans, or Rajpoots) were too unenterprizing to make an outlay of this nature on any large scale; and, thirdly, their unwillingness was increased by the short period of settlement, for, after the first ten years, they must have felt that before such an outlay of capital could be repaid by a fair rate of interest, the Settlement Officer would be upon them. In so short a settlement, every increasing year lessens the willingness to spend capital on the soil.
- 18. The increase in the number of tenants having right of occupancy is remarkable—513 to 170. Their average holdings, however, able—513 to 170. Their average holdings, however, are smaller, and 3 acres is certainly not more than one man can cultivate. There seems little fear of their sub-letting their holdings. The cultivating proprietors have diminished very much, and probably some of them are now to be found among the tenants having a right of occupancy. The diminution of their holdings is chiefly to be attributed to the confiscation in 1857 of two or three large Bhyachara villages, and the flight or conviction of the zemindars; for the Transfer Statement shows that ordinary transfers will not

account for it. These statements are the result of a careful analysis of the old and new records, and may be read with more satisfaction than usually attaches to statistics prepared by native officials.

- Amount of transfers during Mr. area, but there is no doubt that petty transfers, where mutation of registry has not taken place, are frequently unrecorded. It will be seen that of the recorded transfers (excluding those in which mahajuns were transferrers) rather more than half have been into the hands of mahajuns, or about 1-14th of the whole area. This is little enough. The jumma in this pergunnah previous to the disturbances and drought was a very fair one. The private transfers are at about seven years' jumma, and the transfers by Court at about six years'.
- 20. The population has been estimated at 405 per square mile. This estimate, it will be remembered, was not taken in one day, but extended over four months; and though, from personal testings, I believe it is accurate in itself, it can, as a census, only be approximate.
- 21. The Putwarees' circles were re-arranged subsequent to assessment. There are now 32 circles and 32 Putwarees. The villages lie contiguous, nor does any circle embrace villages lying in different pergunnahs. The highest pay is Rs. 151, the lowest Rs. 169.
- 22. Those revenue-free villages in which there were two parties—maâfeedars

  Provision for cesses in revenue-free and zemindars—have had a demand duly assessed.

  In villages where the maâfeedars owned also the zemindaree right, a jummabundee has been calculated at the average cultivated rate of the circle in which they stand, for the calculation of cesses. The maâfeedars have agreed to pay such cesses pending settlement, or till further orders.

Jumma not increased, but readjusted.

23. The pergunnah, prosperous hitherto, will, I hope, continue to do well. The jumma has not been increased, but readjusted.

- 24. The following villages, in which all or part of the maâfee right has lapsed by rebellion, have been added to the towzee, and included in the pergunnah jumma,—viz., Hirunwarrah, Yarpoor, Chuk Kutubghur, Chundena Mall, Mulanpoor, Loharee, Sohunjnee Umarpoor. Besides these, in this, as in other pergunnahs, are patches of confiscated lands—small plots only.
- 25. It will be seen from the statement regarding increase attributable to canal that the increase of demand in this pergunnah attributable to that cause is stated at Rs. 10,295. The method in which this sum has been calculated is explained in the remarks of the statement. But the amount to be taken off from the jumma owing to canal action has not been entered either in this or in any other statement. There were simply no data on which I could go. The villages bordering the canal are very much affected by the efflorescence locally known as reh, which is destructive to all vegetation. The barren land of those villages at the last settlement was 535 acres, as in the mar-

4	Acres.	Acres.		
Yarpoor	364	389		
Khera Gudaee,	43	376		
Khyl Shikarpoor,	20	308		
Bunhera	33	426		
Nonjul	75	908		
	535	2,407		

The greater part of the 2,407 was at the last settlement classed as culturable; and in the case of so large an area one is bound to suppose it properly classed. gin: it is now 2,407. This increase is chiefly attributable to the increase of this land. Major Brownlow is unwilling to allow that the canal is the cause of increase in this land; but *reh* in these parts of the district is only to be found in the neighbourhood of the Jumna Canal and the Jumna River, and there is no other cause to which, as far as I have heard, it can be attributed.

26. The total canal irrigation at the last settlement, as shown in the canal records, was 3,590 acres, and in 1859-60 was 6,000 acres; the former against 20 villages, the latter against 25.

Rates on cultivated and malgoozaree area of the new jummas.

27. The rates of the new settlement on the cultivated and culturable area are as follows:—

			M	Malgoozaree rate.				Cultivated rate.		
Kheaoree	Circle	•••	•••	1	4	11	1	13	7	
Aurungaba	ad Circle	•••	•••	1	14	$0\frac{1}{2}$	2	9	11	
Pergunnal	h	•••	• • •	1	7	2	2	0	7 <u>1</u>	
Pergunnal	Gungoh, Zi	llah Saharun	pore,	.1	3	7	1	11	5	
Ditto	Rampore,	ditto	٠	1	7	83	1	12	$2\frac{3}{4}$	

28. The rates of the new demand on each caste in each circle are subjoined.

Incidence of rates on each caste in thus, it is hoped, be clearly seen, as being struck for each circle; the causes which make the difference are narrowed chiefly to that of easte.

The number of villages from which the average rate has been struck is also given, to enable the Board to judge of the fairness of any generalization.

- 29. Balances have been separately reported upon. Were it not for the effects of the Mutiny, there would be very few balances, and such as there are, are chiefly those which have accrued under direct Government management of confiscated lands.
- Pergunnah maps accompanying report, illustrative of the chief points connected with the settlement.

  Pergunnah maps accompanying report, illustrative of the chief points accurately the circles of assessment, the main roads, the direction of village roads and rajbuhas, and against malgoozaree and cultivated rate of the new assessments. A statistical summary is added in the margin. These maps, it is hoped, will bring the results of the assessment together, and show the general features of the new settlement.

Mozuffernugger:
Dated the 8th January, 1864.

A. COLVIN, Settlement Officer.

( See paragraph 12.)

As. P.

From Mozuffernugger to Meerut, 33 miles, 3 3 per Meerut pucka maund.

Shamlee 24 ,, 2 0 ,, ,,

Jelalabad 21 ,, 1 9 ,, ,,

Deobund 16 ,, 1 6 ,, ,,

Saharunpore 36 ,, 3 6 ,, ,,

Hurdwar 51 ,, 5 0 ,, ,,

Roorkee 32 ,, 3 3 ,, ,,

Bijnour 33 ,, 3 3 ,, ,,

Gharree hire within a radius of 33 miles is Rs. 4, and a gharree load 20 maunds pucks. (See paragraph 7.)

<b>Meesun irr</b> iga	ted.			Acres.
Wheat,	19	maunds	per acre,	201
Gram,	12	**	- ,,	11/2
Barley,	17	**	22	01 {
Dhan,	16	33	33	0į (
Joar,	18	99	22	3
Oornd.	20	••	•	O# }

Parts of 100, the whole area being reduced to 100.

3

The rest of the 100 (acres) meesun irrigated are subtee crops paying a money rent, to which it was not necessary to apply average rates. The rate formed from the money value of these averages and the result of the zubtee rates was Rs. 3-7-9.

	Roelee irrigated.				Roslee unirrigated.								
٠.	Wheat,	16 n	naunds	per acre,	43	acres.	Wheat,	10	maunds	per acr	e, 74 <del>2</del>	acres.	,
	Gram,	12	"	29	3	"	Joar,	10	**	21	07	"	
	Barley,	14	"	"	0}	33	Oorud,	٠. (					•
	Musoor,	14	n	**	01	"	Mote,	12	"	"	5	22	
	Chhora,	18	39	**	12}	"	Tì	ie res	t zabte	e rate ==	1-14-7	7.	
	Dhan,	12	30	,,	11	,,						•	
	Joar,	15	"	n	6∤	,,							
	Oorud, Mot	e, 17	**	"	3	,,							
	The	rest z	ubtee 1	rate = 3-1	-11.								
				rigated.						ur unirr	•		
•	Wheat,	12 r	asunds	per acre,	13	acres.	Wheat,		7 mau	nds per	scre,	58‡ ac	cres.
	Gram,	14	**	"	6	**	Grani,		9,	, ,		4	**
•	Barley,	14	**	99	1‡	"	Chhora	,	11 ,	» я	,	371	10
•	Musoor,	12	29	"	0}	29			Rate	<b>= 2-10-7</b>	•		
•	Chhora,	18	**	"	674	"							
	Dhan,	20	**	"	31	"							
	Joar,	12	"	22	01	"							
	Oorud,	14	**	>>	0 <del>]</del>	**							
							Bhoor irri	gated	•				
				Whea	t,	5 n	senuqa ben 'scae	, 45	acres.	•			
				Joar,		4	» »	6	n				
				Oorud	•		,, ,,	18					
						Rest z	abtee rate == 1-	5-1 <b>}</b> .					
ļi			M.	L M	. <b>v</b> .	R.	L R. U.	1	D. <b>I</b> .	<b>D</b> . <b>U</b> .	В	L	B. U.
	tes actual adopted	ly }	4 11	8 1 10	11	<b>1 14</b>	8 1 4 10	. 1	15 1	1 13 9	<b>l</b> 1	8 10	134
Ra	tes as above	•••	3 7	9.	••	3 1	11 1 14 7	1	8 9	2 10 7	1	5 1	•••
				Rat	es ad	opted in	the Kheaoree (	Sircle					
	<b>M</b> . 1	I.	M. U.	R.	I.	R.	U. D. I.	1	D. U.	B.	I.	<b>B</b> . 1	U.
	2 11	1} :	8 5 8	<b>8</b> 1 12	1	1 4	0 1 7 3	1	1 3	0 15	3 2 <del>4</del>	0 1	1 6
							<del></del>						

#### PERGUNNAH JANSUTH.

This pergunnah was formerly known by the name of "Jowlee," but was afterwards more properly named after its principal and most centrally situated town, Jansuth. At the re-casting of the pergunnah system in 1854-55 it was thus re-constituted:—

From	Pergunnah	Jowlee,	Zillah	Mozuffernugger,	33	Estates.
"	,,,	Bhooma	"	"	4	,,
,,	"	Sumbulhera	"	"	2	"
,,	"	Mozuffernugg		"	3	"
"	"	Bhookerheree	"	,,	7	"
,,	"	Khatowli	"	**	4	,,
,,	.,,	Poor Chupar	"	,,	3	17
"	,,	Hustinapoor,	,,	Meerut,	6	"
,,	. ,,	"	"	Saharunpore,	1	"
					63	

2. The Northern or Jowlee Circle is, with rare intermissions, one vast sandy tract. The jansuth Circle is generally good, but is traversed by a range of low sand hills from the Jowlee plain, which, bifurcating to the south-west of the town of Jansuth, throws out branches

in two directions—due south and south-west. With the exception of the land actually occupied by these ridges, the soil is generally good. In the southern corner, where canal water has not as yet penetrated, kutcha wells can be constructed.

The central and northern portions are pretty well irrigated, but on the whole the pergunnah has not, perhaps, derived so much benefit from canal irrigation as some other parts of the district. Even at the last settlement, 13 per cent. of the cultivated area was irrigated from wells, and now the whole percentage of irrigation is but 38 from all sources.

Against this increase must be set off the damage done by the flooding of the Nagun by the escape water of the Pulree Rajbuha. A rain torrent has thus been converted into a regular stream, liable to rise suddenly and destroy the crops on either bank. The leakage from the same rajbuha, which runs high above the level of the country, has also rendered swampy and unfit for cultivation portions of the area of Pulree and other villages.

3. The bulk of the pergunnah belongs to three of the principal remaining families

They themselves derive this designation from the word "Baher," saying that under the Khiljye and Turcoman dynasties they lived outside the "Oordoo," or camp tenanted by the rest of the king's retainers. Sir Henry Elliott thinks this derivation vitiated by the etymology.

of the Barhah Syuds. This race claim descent from the Ben-i-Fatima, or blood descendants of the Prophet. Their immediate ancestor, Abdoolfurah, settled in Puttiala, and the names of the four villages which, with his family, he occupied,—Teheenpoor, Chatrour, Jugner, and Kundlewal,—are

still preserved in the designations of the four principal tribes of the "Barhah Saadat." The largest and most flourishing branch is now the Teheenpooree, which includes the families of Jansuth, Munsoorpoor, Khatowlee, and Mozuffernugger. The Chatrourees, though much fallen from their former diginity, are still to be found in Meeranpoor and its neighbourhood. Few of the Jugnerees are left, and the Kundlewals have been almost extinct since 1760, when those who did not perish by famine and the sword of the Mahratta emigrated to Oudh. It is said that a few may still be found in Bedoulee.

Hossein Ali Khan, the present intelligent and enterprizing head of the family, traces his descent to the famous Wuzeer of Furokhseer, Abdoollah Khan, whose career is matter of history. It was while he, and his no less distinguished brother, Hossein Ali Khan, Ameer-ool-Oomra wielded the whole power of the empire, that the Syuds attained the wealth and position of which every village in these pergunnahs still shows the decaying monuments. Little now remains worthy of notice, except at Meeranpoor, where, among other objects of interest, is an enormous well, approached by a broad descending passage, down which many horsemen could once have ridden abreast, and watered their horses from the subterranean chambers, whose floors are built on a level with the water. The parapet and aboveground portions have been repaired, under the orders of Government, but the descent and the vaults are still choked by brushwood and fallen bricks. Here, too, are the marble tombs and cupolas erected in memory of the ancestors of the Chatrourees, but they are now dilapidated, as much by petty pilferings of the valuable stones with which they are inlaid, as by the attacks of an Indian climate.

The assassination of Hossein Ali Khan and the imprisonment of Abdoollah Khan were serious blows to the fortunes of the family, and from the day that the attempt of a third brother (Seif-ood-deen Khan) to establish a separate principality here was frustrated by a defeat at Bhynsee, followed up by the sacking of Jansuth, they have steadily declined, till in the disorders of the latter portion of the last century the greater part of them, too weak to make head against the oppressions of the Mahrattas, took refuge in Oudh. The establishment of British rule attracted them again to their houses, but their habits and traditions had ill fitted them to wage a contest against energy and progress; and the bunya, backed by the system and strength of our Government, has proved to them a more formidable enemy than the

Seikh or Mahratta, whose aggressions were supported by a mere feverish and fitful violence. The indolence and fatalism which are the characteristics of all Mussulmans are in their case stimulated by an unhealthy pride of descent, the offspring of which is not the energy that restores, but the recklessness that destroys. They cannot forget the days when every Syud son was on his birth enrolled as an officer or pensioner

A Synd cultivator, however poor, is still mentioned as "Synd Saheb." of the State, and when the humblest among them reaped the respect due to his triple claim of position, descent, and sanctity. Sir Henry Elliot's epigrammatic phrase, "the throwing away a birth-right to celebrate a wedding," has often found a literal application in the annals of this race. An honorable exception to this system of prodigal fatalism is Hossoin Ali Khan of Jansuth, who, by exertion and judicious enterprize, has not only freed his property from debt, but is yearly increasing its extent.

4. His numerous estates are mostly let for money rents, and many other landlords have also adopted the same system. Though a
valuable basis for assessment has thus been obtained,
it has not been allowed to supersede the rent rates and the other rental estimates, but
the constantly varying nature of the soil has prevented any attempt at fixing a sum-

			_ `
Soil.	Rent ratc.	Revenue rate.	mary rate for of this usefu
Irrigated	4 1 6	2 0 9	to compare t
Unirrigated ditto.	3 6 114	1 11 6	the usual m
Irrigated	2 13 104	1 6 11½	map. The
Unirrigated ditto,	1 15 74	0 15 10	every case l
Irrigated Dakur,	2 10 5	1 5 3	scrutiny. V it was often
Unirrigated ditto,	1 12 114	0 14 6	varied from
Irrigated Bhoor,	2 9 9}	1 4 101	stances, be fa
Unirrigated ditto.	163	0 11 11	and whether
2	ND OR JOWLEE	AREA.	tively fixed
~	Rent	Revenue	would come
Soil.	rate.	rate.	would colle
Irrigated Meesun,	} 383	1 12 11	tion, and, ir
Unirrigated ditto,	8 1 111	1 8 111	a course of
Irrigated Roslee,	8 11 9	1 5 101	the shortcom
Unirrigated ditto,	1 15 9	0 15 101	would inclu
Irrigated Dakur,	} 204 <u>}</u>	1 0 21	fixed before
Unirrigated ditto,	1 7 1	0 11 64	or granted o
Irrigated Bhoor,	3 7 4	1 .3 81	landlord, or
Univrigated ditto.	3 3 84	1 1 10	made in thi

r universal application. In the absence ul test, the utmost care has been taken the rates of the revised demands by ethod of filling them in in one skeleton discrepancies thus observed have in been subjected to rigid and repeated Where money rents were found to exist, only necessary to consider how far they what would, under ordinary circumairly levied in estates of a similar class; r the causes of variance were comparaor temporary. Under the former head inferior soil, inaccessibility to irrigan so far as the value of the estate had ially impaired by their operation over years, the poverty of the landlord, and nings of the cultivators. The latter head ude, among others, the case of leases the introduction of canal irrigation, on favorable terms to clansmen of the r to new cultivators (allowance being is last instance for capital sunk in their or obtained at similarly reduced rates

by custom and combination of the cultivating body. Even where collections were still in grain, the same process could be applied to data furnished by anology, and I was also assisted by the rent-rolls of those of Hossein Ali Khan's estates in which deficiency of numbers or means in the cultivators necessitated the retention of this system.

Full attention was as usual paid to the returns of transfers and the financial

* The transferred property was 20 per cent. of the area; of this, three-fifths belonged to Syuds in whose case transfers need no comment.

history. The former assessments were, however, in general, fair, and the Government demand had been paid with ease in 48 out of 63 estates. In the whole pergunnah, I did not find more than two or three

cases of material over-assessment, and in these the means of the owners had enabled them to bear the burthen without breaking down.

The demand has been raised from Rs. 56,152-7-7 to Rs. 58,416.

C. GRANT,
Assistant, Settlement Department.

#### PERGUNNAH KHATOWLEE.

Constitution of pergunnah.

THE Khatowlee Pergunnah was thus rearranged in 1855:—

Former	Khatowlee 1	Pergunnalı	•••	•••	80	Estates.
"	Mozuffernugger	,,	•••	•••	2	"
"	Poor Chupar	"	•••	•••	1	,,
"	Bhookerheree	"	•••	•••	1	,,
"	Deobund, Zillalı	Saharunpore	· · ·	•••	1	,,
"	Hustinapore, ,,	Meerut	•••	•••	3	"
•						
					88	

2. The central body of this pergunnah, possessing every advantage of soil, irrigation, and population, is far superior to any other part of the Jansuth Tehseel. The land is level and fertile; numerous and flourishing villages, embedded in mangoe groves, attest the prosperity of the Jât and Ruwa cultivators; and rajbuhas running parallel to, and on oither side of, the canal distribute water in every direction.

This fine tract was once in its entirety the heritage of the Munsoorpoor and Khatowlee family of Syuds. The former branch still retain a great portion of their rights, and their present representative, Abdool Ali, is in moderately good circumstances: but the latter are becoming more and more involved every year. An old instance of their recklessness may be mentioned here. Some 30 or 40 years ago they had an agent to whom was entrusted the whole management of their estates. Requiring money, as they say, for the expenses of his son's wedding, he embezzled the whole proceeds of a season. To meet the Government revenue, they mortgaged 16 villages to a mahajun for Rs. 17,000: the fortunate mortgagee at once sub-mortgaged his acquisition for Rs. 28,000 to the Nawab of Kurnaul, who is now the principal landowner in the pergunnah.

Here was a loss at one blow of Rs. 30,000, which might have been almost entirely obviated.

To the west, the pergunnah is bounded by the Kalee Nuddee, which, swelled by the escape water of the canal, has of late years occasioned much damage to the low-lands lying on its bank. The approach to this khadir is marked by a range of low sand hills running in a due north and south direction through the whole of the estates on this side. To the south, the river takes a westerly direction, and the pergunnah thus widens out. All this portion of it is poor, sandy, and little irrigated. It forms part of a "choubeesee" of Rajpoot villages, which extends into the Meerut District, and whose head is Chowdree Bijah Singh of Chundseena.

To the east there is no definite boundary, such as a river, but here also the line of demarcation takes a westerly direction towards the south of the pergunnah. The tract thus included is principally inhabited by Puthans, Rangurs, and Goojurs; and though the soil, except in the westernmost estates, is of fair quality, want of irrigation and means prevent the cultivators from doing it justice. Here, too, the opening of the canal has been more prejudicial than advantageous, as, though the irrigation channels are too far to be of any service, much damage has been done by a rain torrent, Rhowa, as the Nagun, which has been swelled into the dimensions of a river by the escape water of the canal.

3. The rent rates in this pergunnah were found, on comparison with other esti-

	Assess	MEN	T.			
Soil.	I	ent:	rate.	Rev	enu	e rate
Irrigated Meesun,	} 5	0	71	2	8	31
Unirrigated ditto.	} s	5	3	1	10	7 <u>1</u>
Irrigated Rosles,	<b>\{</b> 8	8	4	1	12	2
Unirrigated ditto.	<b>}</b> 2	3	6}	1	1	9
Irrigated Dakur.	<b>\( \)</b>	4	10	1	2	5
Unirrigated ditto.	<b>)</b> 1	14	03	0	15	01
Irrigated Bhoor,	<b>\}</b> s	14	6	1	7	3
Unirrigated ditto,	<b>)</b> 1	6	81	0	11	4

mates and the jummas hitherto paid, to be too low; they were therefore tested by a "kunkoot" made by the Tehseeldar and Canoongoe, and by the actual sub-leases in estates. The result showed that, to correspond with average assets, they should be increased about 18 per cent., except in "bhoor," or sandy soil. A summary rate was easily deduced from the numerous and various money leases actually existing in the pergunnah. The method of its computation is shown in Appendix A. The other rental estimates were also compared, and where any doubt remained, either as to actual assets,

or as to the proportion of them which might fairly be taxed, the money rates prevailing in neighbouring estates generally furnished a clue to the calculation of a suitable rental. Reductions have been generally needed in the ill-cultivated and poorly-stocked estates to the south-east, where the jummas had been fixed much with regard to culturable land. Had the improvident Puthan and Rangur owners brought to their task industry and capital, instead of debt and listlessness, these assessments would no doubt have been found suitable; but, under the actual circumstances, they have only led to transfers and deterioration. Relief was also needed in some of the estates on the

With difficulty in ... 15 river bank which had been assessed beyond their capably duress in ... 1 bilities. In the greater part of the pergunnah, however, the collections have been easy.

Canal irrigation has not added to the rentals as much as might have been imagined. The inferior parts of the pergunnah have not yet been benefited by it. In the central tract, one-third was formerly irrigated by wells, while now canal water is not available in more than one-half, and the rents had been fixed on too high a scale to be capable of much increase; the result has been an increase on the former demand of Rs. 432-2-0.

MEERUT:
Dated the 9th November, 1863.

C. GRANT, Assistant, Settlement Dept.

## PERGUNNAH BHOOMA SUMBULHERA.

THE bulk of this pergunnah was united to the Mozuffernugger District in 1842. At the re-arrangement of the pergunnah system in 1855 it was thus re-constructed:—

From Pergunnah Bhookerheree, Zillah Mozuffernugger, 14 Estates.

"	"	Jowlee,	,,	,,	2	,,
77	"	Khotowlee,	"	,,	4	,,
,,	,,	Bhooma,	"	"	30	"
,,	,,	Sumbulhera,	,,	"	11	"
,,	"	Hustinapoor,	"	Meerut,	5	,,
,,	"	,,	"	Bijnour,	10	"
					_	
				Total,	76	

In 1859, a change of course of the Ganges added two more estates from Zillah Bijnour; one has since been swept away by the river, and one has been added to the list by the drying up of the swamp; and an estate which formerly consisted of five mehals has been divided,—thus increasing the total by 4.

The pergunnah therefore now consists of 82 estates.

The "bangur," or upland portion, is perhaps the worst continuous tract in the whole district; it is intersected in every direction by Description of pergunnah. seams of sand, which are of such frequent occurrence that the traveller from Khatowlee to Meeranpoor can without difficulty tell when he enters the pergunnah by the condition of the road. With the exception of three or four fine Jat villages on the western boundary, there is no " Bangur." estate in it which does not include a large proportion of "bhoor." It is a commonly-expressed matter of wonder among the Syud land-holders that their ancestors should have chosen for their home so unfertile a corner of Hindostan, but they may console themselves with the reflection that the unenviable character of their possessions has probably retarded their inevitable displacement by richer men. The wealthy purchasers who compete to buy land in neighbouring pergunnahs have as yet shown no desire to extend their acquisitions in this direction, and the principal transferees of Syud proprietary rights are small moneylenders and traders, for the pergunnah contains no large capitalists of its own, although its principal town, Meeranpoor, is a "mundee," or entrepôt of trade, where the products of the hills and the Terraie and the rice of Rohilcund are exchanged for the salt of the Punjab and the grain of the Doab.

It is not, however, necessary to account for the settlement here of the Syuds by supposing any deterioration of soil or extension of sandy area of late years, for their destination was decided, in the first instance, more by necessity than by choice. When they came down from their temporary home in Puttiala they had not attained the power and distinction which afterwards fell to their lot under Bahadur Shah and Farookhseer, though even then their employments, actual or prospective, about the Imperial Court, rendered necessary a residence near Delhi. They had neither the strength nor the influence to eject the powerful tribes of Rajpoots, Jâts, Goojurs, and Mewathees who held the more convenient locations.

In their present decadence and poverty, they are mere burdens on the land, which, as has been seen, is ill qualified to support them. Nor are their shortcomings reduced in most cases by the industry and energy of the cultivators. In the southern portion, or old Bhooma Perguunah, there is certainly a fair admixture of Jâts and Jhojhas; but to the north, in what was the Sumbulhera Pergunuah, the tillers of the soil are nearly all of the Goojur class. Some of these communities have not yet recovered from the heavy fines imposed on them for their disorderly conduct during the disturbances, and none combine both the means and the inclination to cultivate properly. To these disadvantages may be added deficiency of irrigation, owing to the low level at which most of the irrigation channels are constructed, especially in the Sumbulhera or Northern Circle, and no more need be said to show the necessity for care in the revision of the assessment of so ill-endowed a tract. The Khadir, or alluvial tract which borders the right bank of the

Ganges from the Saharunpore District, to Gurhmooktesur, in the Meerut District, is here from four to six miles broad. To the south, it has received considerable accessions from the Bijnour District by the change of course of the Ganges. At all times, the treacherous swamps and quicksands, the distance of villages from each other, the deficiency of a tenacious earth, and the expense of bricks for houses, the constant inroads of wild animals on the crops, and, above all, the discomforts and dangers of the rainy season, will stand in the way of the colonization and development of this tract. The only class who disregard these evils and inconveniences are the Bijnour Chohans, a debased branch of the Chohan Rajpoots, who are easily attracted by advances of money and favorable terms of rent, but as readily disappear on the first appearance of pressure from the laudlord. They are even too free from that hereditary feeling of attachment to the soil which is such a millstone round the neck of the upland cultivator, and it is only their unsuitability to a more settled mode of life which retains them to this neighbourhood. Though

" Khadir."

many of them are still to be found, their numbers were considerably diminished in the Mutiny, and the southern part of the Khadir is now much deserted. Three large villages-Julalpoor Neelah, Khera Mujahidpoor, and Rerewah-were, among others, destroyed and looted by turbulent bands of Goojurs. Though careless farming and an easily exhausted soil had always prevented anything like continuous cultivation in these estates, there was once a large though scattered area under the plough, and growing prosperity was teaching the villagers settled habits. But many of them were killed, others were driven away, and the destruction of the accumulated profits of years has broken the tie which might have induced the remainder to cling to their homesteads. The returns from the three estates had reached from Rs. 6,000 to 8,000 annually, while now they barely meet the jumma. Rerewah, which has been re-settled, will no doubt in time do well. Jalalpoor Neelah belongs to a wealthy bunya, whose zeal for improvements has hitherto been damped by the fear of their affecting the new assessment; but that difficulty has now been removed. Khera Mujahidpoor, which belongs to an impoverished Syud family, there is little hope, except in spontaneous immigration; but it will be long before this tract regains its former prosperity. The extraordinary increase in the number of wild pigs and deer since the disarming of the country is an evil which even strong measures will not quickly counteract; and the zemindars complain, with what justice I cannot say, that the fertility of the soil has been impaired by the receding of the Ganges to the eastward. Formerly it used to flood the whole of this tract, and its waters, going off rapidly, left behind them a fertilizing deposit. It is, at least, certain that the rice produced on the river banks is finer than that grown farther in the interior.

At present, almost the only returns from these estates are derived from thatching grasses. Of these, "punnee," a broad-bladed soft grass, is the best. It is also used for making brooms. The other kinds are "patel," a fine needle-shaped grass, with a high stalk growing from the middle of each tuft, and the universally known "kans." The tall central stalks of the "surkora," called "bheends," are used instead of bamboos for thatching huts: string for beds is also manufactured from them. But it is a universal complaint that of late years thatching grass has not been so much in request as formerly. The reason is by some stated to be the prevalence of the custom of tiling in the Cantonment of Meerut since the Mutiny, while others attribute the slack demand to the universal growth of high grasses along the canal banks. Be the cause what it may, the fact is, I believe, certain; and, except in lands lying on the river immediately opposite Bijnour, these grasses do not generally meet with a ready sale. A few rupees are also made by granting permission to dig saltpetre.

The central and northern portions of the Khadir escaped with comparative impunity from the forays of the Goojurs. The large estate of Hosseinpoor contained, among other villages, a Goojur settlement known as Secalec, the inhabitants of which attacked and partially looted Hosseinpoor. It is the principal place in this neighbourhood, and a halting-place for merchandize on the Meerut and Bijnour Road. The damage done by them has been repaired, and they have been rooted out, so that the loss incurred by the zemindar has not been without its compensating effect. The northernmost estates, always the best in this tract, have thoroughly regained their former prosperous position.

# 3. The principle of assessment has been the same as in the Bhookerheree Pergunnah. Rent rates, founded on a classification

ler or Tise	SAE	Cir	BCLE	<b>,</b>			
Soil.	_	Rent rate.		Revenue rate.			
Irrigated Meesun,	4	8	٥,	2	4	0	
Unirrigated do.,	4	2	. 0	2	1	0	
Irrigated Roslee,	3	15	1	1	15	61	
Unirrigated do.,	2	13	92	1	6	11	
Irrigated Dakur,	2	2	8	1	1	41	
Unirrigated do.,	1	15	91	0	15	11	
Irrigated Bhoor,	2	14	3≩	1	7	0	
Unirrigated do.,	1	8	18	U	12	1	

Pergunnah. Rent rates, founded on a classification of soils, have been checked by summary rates on irrigated and unirrigated land. The rent rates, as before, were adopted from Mr. Thornton's circle rates. With the exception of six villages which were treated as exceptionally good, the Bangur was considered as one circle. Though the northern portion is undoubtedly inferior to that of the

2ND OR JOWLEE CIRCLE.

Soil.	Rent rate.			Revenue rate.			
Irrigated } Meesun, }	3	8	3	1	12	11	
Unirrigated } ditto,	3	1	11‡	1	8	111	
Irrigated \ Roslee.	2	11	9	1	5	10 <u>1</u>	
Unirrigated ditto.	1	15	9	0	15	10}	
Irrigated } Dakur,	2	0	41	1	0	21	
Unirrigated }	1	7	11	0	11	64	
Irrigated } Bhoor.	2	7	41	1	.8	-	
Unirrigated }	2	3	8}	1	dry 1		
Bhooms	1	12	6	0	15	0	
Sumbulhera,	1	8	0	0	12	0	

Ka.	DID	SOTT.
N H A	DIR	COIL

Soil.	Rent. rate.	Revenue. rate.
Irrigated } Roslee,	2 14 112	1 7 6
Unirrigated ditto,	2 5 6	1 2 9
Irrigated Dakur,	2 13 0	1 6 6
Unirrigated } ditto,	1 13 112	0 14 111
Irrigated Bhoor,	2 2 6	1 1 3
Unirrigated } ditto,	1 5 101	0 10 111

* In 19 estates collections were difficult, in 2 almost impossible. southern, as well in soil as in the quality of the cultivators and facilities for irrigation, I did not think the difference sufficiently marked to make a separate classification necessary.

The summary rates are formed from those calculated for the former Meerut settlement by a deduction of  $16\frac{2}{3}$  per cent. or  $\frac{1}{4}$ , as 100 represents the assets, and these are revenue, not rent, rates. The bulk of the pergunnah was formerly in that district, and Sir Henry Elliot based his assessment almost entirely on summary rates for irrigated and unirrigated land. The result of a collation of rent rates and summary rates was accepted, after a comparison with other rental estimates, as a fair theoretical assessment, to be tested and modified by the financial* history, and by such actual facts as could be ascertained by personal inspection and enquiry. Glaring cases of over-assessment could barely pass the ordeal of equalization of rates, but in one or two instances difficulties of collection and constant transfers pointed to a state of depression, in which average rates were too severe. Another aid to assessment was derived by applying the rates of the former jummas on cultivated and culturable land, modified to half assets to the new assessment areas.

From other sources it must be confessed that little was discovered. The Tehseel-dar, who has since been pensioned, was too incompetent, and the Canoongoe too new, to supply a trustworthy estimate. Money rates, which are generally indicative of good soil and prosperity, were of rare occurrence, except in the few Ját villages mentioned above. But in the instances where average rates were found to work fairly, they were carefully noticed, and employed to check the estimated rentals; and some reliable rates of rent were obtained by enquiring from the principal cultivators of an estate belonging to the Rajah of Landhoura (a minor) the terms on which they would take the lease, each man paying per acre according to the quality of the land in his holding.

It must, however, be remembered that with sandy soil, scanty irrigation, and poor cultivators, proceeds depend so much on the season, and rentals vary so much from year to year, that closely accurate estimates of produce cannot successfully be attempted even by the owners or their agents themselves. One large proprietor, now a Tehseeldar in the Meerut District, furnished me with many valuable particulars regarding the circumstances and supposed incomes of land-owners, the means and characters of villagers, and the qualities of soil and produce of various estates; but, except in one or two instances, he wisely made no attempt to state exact rentals.

Much was therefore left to the judgment; but fortunately I had great confidence in both systems of rates, arrived at by two different processes, classified on different principles, and the result of independent calculations by two different officers, on different data. They agreed in most cases admirably, both with each other and with such information as I was able to obtain. A careful comparison of the rates of the new assessments with each other, and with the general rate of the circle and pergunnah, brought to notice remaining inequalities, and furnished occasion for a final scrutiny and correction.

The whole of the Khadir has been considered as one circle. The rent rates employed were formed by a fusion of those calculated for the two circles into which this tract was divided by Mr. Thornton; but, applying merely to cultivated land, these rates could not be regarded as affording sufficient grounds for assessment, as

the value of these vast culturable areas was but ill represented by a mere estimate of their scanty agricultural produce. A malgoozaree rate of five annas per acre, derived from the old jumma, and shown by experience of the Bhookerheree Pergunnah to be suitable, was therefore employed as an aid to assessment.

But the depressed condition of some of these estates made it necessary to limit the demand by what, in fact, could be realized under present circumstances. Even if a higher demand had been thought advisable, no farmer could have been expected to undertake it, as twelve years' profits could not compensate him for the expenditure of capital necessary to restore the land to a paying condition. The principle of progressively increasing demands has been disapproved by the higher Revenue authorities, and, therefore, in such instances the difficulty has been temporarily met by recording a condition that the assessment should be liable to revision, at the pleasure of Government and the Board. Should the present settlements be rendered permanent, these estates will, of course, be exempted from the privilege; and in the meantime perhaps the best course would be to declare their jummas liable to revision after ten years.

Even in the more prosperous estates of this Khadir, it was impossible to rely too much on future prospects of increased produce, depending almost altogether on the forbearance and industry of an unsettled race of culivators, and the assessments were necessarily based much on actual condition.

The result of the whole has been a diminution in the Government demand of 1386, but the reductions in the ruined Khadir villages alone amounted to upwards of Rs. 2,000, and some strange cases of over-assessment in the Bangur involved considerable abatements, amounting in the four most marked instances to a total of Rs. 2,000. Besides these special cases, the general reduction to half assets lowered the whole system of rates by one-fourth, and the increase of cultivation was not sufficient to meet the loss thus incurred. Indeed, the newly-cultivated land of this pergunnah is, in almost every case, of the poorest description: what was either good in quality or near the villages has long since been brought under the plough, and the uncertain produce of outlying sandy fields adds more to the nominal than to the real value of these estates.

Deficiencies were to a considerable extent met and counteracted by canal irrigation, and had there been no special cause of deterioration the revenue would have maintained its equilibrium. The gain accruing from the canal to the jumma is estimated at Rs. 7,016 annually.

The engagements were readily entered into, and no coercive measures were found . necessary.

MEERUT:

Dated the 9th November, 1863.

C. GRANT, Assisstant, Settlement Dept.

#### BHOOKERHEREE PERGUNNAH.

## ZILLAH MOZUFFERNUGGER.

THE Bhookerheree Pergunnah is bounded on the east by the Ganges, on the north, south, and west by the Goordhunpoor, Poor, and Mozuffernugger, Jansuth, and Bhooma Sumbulhera Pergunnahs respectively. It thus forms the central portion of the eastern division of the district. At the re-casting of the pergunnah system in 1842 it was thus formed:—

							Estate
From the	former	Pergunnah	of Bhookerheree,	Zillah	Mozuffernn	gger,	40
"	**	>>	Mozuffernugger,	27	37	44+	5
22	22	33	Jowlee,	27	23	***	1
22	32	77	Poor Chupar,	29	>	•••	2
				53	Meerut	***	1
				27	Bijnour	***	14
							_
							63

The constant tendency of the Gauges to recede eastward has since added five more estates from the Bijnour District,—two in 1849, three in 1859,—so that the pergunnah now consists of 70 estates, of which 53 are inhabited, 17 uninhabited.

2. Its physical features are remarkably varied. It may be said to consist of a series of longitudinal belts, the first of which, beginning from the west, is a sandy tract culminating

in a low range of sand hills. Here little is produced but the poorer crops, such as mote, jowar, bajra, &c.; and sugar-cane is almost unknown, except here and there upon the outskirts, where a little canal water reaches. Beyond this is a belt of good land running from north to south, and containing 27 estates. This is the best part of the pergunnah, and is equal to most portions of the district. The soil is generally rich, the cultivators good and numerous, and the Ganges Canal runs through the centre, irrigating freely all parts of it. For purposes of assessment, it constitutes the 1st Bangur or Upland circle. The 2nd Bangur Circle is a mixed tract, commencing with a strip of good land, and gradually deteriorating as it approaches the ravines which break the descent from the high land to the Khadir of the Ganges, of which it also includes a portion. Though there are so many varieties of soil in this circle, the estates composing it are so situated that all, or nearly all, contain their quota of each

#### 1st or Tissah Circle.

Kind of soil.	Rent rate.		Revenue rate.			
Irrigated }	4	8	0	2	4	0
Unirrigated }	4	2	0	2	1	0
Irrigated } Roslee.	3	15	1	1	15	61
Unirrigated }	2	13	94	1	6	11
Irrigated } Dakur,	2	2	8	1	1	41
Unirrigated }	1	15	94	Q	15	11
Irrigated } Bhoor,	2	14	34	1	7	21
Unirrigated } ditto,	1	8	14	0	12	1

<b>2112 4 4 4 4 4 4 4 4 4 4</b>						
Kind of soil.		ent ste.		'Re	ve <b>nu</b> a <b>te.</b>	E
Irrigated Meesun,	3	7	11	1	11	64
Unirrigated } ditto,	3	0	10	1	8	5
Irrigated } Roslee,	3	0	0	1	8	01
Unirrigated ditto,	2	2	111	1	1	51
Irrigated } Dakur,	2	4	72	1	2	4
Unirrigated ditto,	2	1	71	1	0	9
Irrigated Bhoor,	2	3	81	1	1	10

2ND OR BHOOKERHEREE CIRCLE.

#### 3RD OR JOWLEE CIRCLE.

Unirrigated

3RD OR JOWLEE CIRCLE.								
Kind of soil.	Rent rate.	Revenue raie.						
Irrigated }	3 8 3	1 12 11						
Unirrigated }	3 1 111	1 8 10 1						
Irrigated \ Roslee,	2 11 9	1 5 101						
Unirrigated }	1 15 9	0 15 101						
Irrigated } Dakur,	2 0 41	1 0 21						
Unirrigated }	1 7 11	0 11 63						
Irrigated } Bhoor,	2 7 41/2	1 3 81						
Unirrigated } ditto,	2 3 81	1 1 10						

sort, and they may therefore fairly be classed together. The tract is, on the whole, well irrigated and fairly populated. Even in the inhospitable ravines of the Ganges, villages may be found dotted at intervals of two or three miles; and though in these wild situations the shade of trees is almost unknown, pure water is scarce, and the children are exposed to constant risk from the incursions of wolves, the pastures of the Khadir are as accessible on the one side as the high arable table-land on the other, and the inhabitants can combine their more congenial occupation of herding cattle with the enforced task of agriculture. By numerous passes winding through the openings in these sandy hills is reached the Ganges Khadir. A far-stretching level tract, of a rich brown, variegated here and there with green patches and shining streams, the whole tipped by the broader line of the Gangessuch is the appearance which it wears in the cold Trees are scarce, and by this time of year the grass has lost its verdure and put on the brown tint which characterizes the whole tract. Only by rising crops or by reedy patches are spots of brighter color presented to the eye. The soil, though not so deep or strong as that of the high land, possesses the vigour of freshness, as new land is being brought under the plough every year; and the disproportionately small number of inhabitants, occasioned by the difficulty of inducing them to settle, allows of an almost annual change in the land selected for cultivation. The crops are therefore, on the whole, good, though the numerous risks to which they are exposed from inundation, the ravages of wild animals, and the unsettled habits of the cultivators, often render the returns from these estates a mere matter of speculation.

This tract has been classed as the Khadir Circle, but it does not include the whole

1 4 11	KHADIR SOIL Rent Revenue	Khadir of the pergunnah. The Ganges approaches within a few hundred yards of the ravines about the centre of the pergunnah, and nearly opposite to the
Kind of soil.	rate. rate.	
Irrigated \ Meesun,	3 7 11 1 11 61	town of Bhookerheree, thus dividing the low land into
Unirrigated }	3 0 10 1 8 5	two portions, which differ widely in character. The southern I have briefly described. The northern,
Irrigated Roslee,	3 '0 11 1 8 01	surrounding the great Joghawalla Jheel, has formed,
Unirrigated ditto,	2 2 111 1 1 51	the subject of a special report, rendered necessary by
Irrigated ) Dakur,	2 4 7 1 2 4	the extension of swamp from the floods of the Solani
Unirrigated }	1 11 41 0 13 81	River. It will be sufficient to say here that, in the
Irrigated Bhoor.	2 3 8 1 1 10	uncertain condition of these estates, they cannot be
Unirrigated } ditto,	1 3 11 0 9 61	classed with any circle, and their assessment must be regarded as temporary and exceptional.

3. On the whole, then, it will be seen that the pergunnah is below the average of the district in natural quality. The first-class estates do not include more than 21,070 acres.

The second class, consisting largely of poor soil, is nearly equal in extent, and of the remainder even the best part is imperfectly cultivated, and lessened in value by many incidental drawbacks, while the worst is at present almost valueless. These natural disadvantages are, however, in some degree compensated for by ample means of irrigation and a large agricultural population. The number of inhabitants is computed at 33,271, or at the rate of 333 (principally Hindoos) per square mile—a very dense proportion, and yet I have reason to believe that it is under-rated, as the number of females recorded is considerably below that of males. Great part of the land, including 25 estates, is still in the hands of the Syuds, in spite of the numerous transfers of their property which have taken place during the last twenty years. The southern part of the pergunnah formerly formed portion of the tract known as "Bahrah Saadat," over the whole of which all traces of alien ownership had been effaced by this powerful family. They are now fast being supplanted by mahajuns, who hold 14 whole estates, and large portions of 18 others. The rest are owned as follows:—

$m{J}$ âts.	Sheikhs.	Tuggahs.	Beohras.
5	4	1	3

All these but the last are hereditary land-holders.

The cultivators are principally Jats and Goojurs, and Chohans.

The estates are cultivated respectively by-

Játs.	Goojur.	Jhojhas.	Bunjarahs.	Chohans.	Sainee.	Syud.	Mixed.
19	10	2	2	7	1	1	28
	(in	cluding Br	ahmins, Ahee	rs, Kahars	, &c.)		

The character of the classes to which the majority of the cultivators belong is in itself sufficient guarantee for the careful cultivation of the soil, on which the prosperity of the pergunnah almost entirely depends, as it is a purely agricultural tract. It contains no large towns or rich traders. The principal place, Bhookerheree, is a mere overgrown mud village, the trading population of which barely suffices to carry on the daily business of this and the surrounding agricultural communities. There are no important roads, except those from Mozuffernugger and Saharunpore to Bijnour, and even they are closed for traffic during great part of the rainy season.

4. Such is the present condition of the pergunnah. The destruction of the district records has rendered it impossible to procure accurate statistics regarding several points on which it would be interesting to compare the present with the past. But the opening

of the Ganges Canal alone is sufficient to produce a very marked increase in prosperity. At the last settlement there were only 189 acres of irrigation; now an ample supply of water is distributed over more than half of the cultivated area by means of eight irrigation channels, for the most part so well laid out and constructed that every estate in the pergunnah but one (Shadra Bangur) in the sand hills partakes of their fertilizing influence. So important an accession to the means of the cultivators could not have failed to accelerate the impulse everywhere observable to extend cultivation, and accordingly a comparison of former and present areas shows 47,884 acres of cultivation now, against 39,151 in 1840, —that is, an increase of about 22 per cent. in 22 years, or at the rate of 1 per cent. per annum. It is also probable that the quality of the cultivation has improved, as well as the quantity, for Mr. Thornton's tables show that the average of the manured land in the district in 1840-41 was but 16½ per cent., and it may be presumed that the proportion in this pergunnah, which is below the average, was less. The present recorded percentage is, however, 22; so that the advance must be considerable.

Another sign of the increasing value of the land, and therefore of the prosperity of the classes connected with it, may be found in the steady advance of rents. Mr. Thornton records that the average rates for "zubtee," or money-paying crops, were then per acre—

						Rs.	As.	P.
Sugar-cane	•••		•••			14	7	0
Cotton	•••		•••			6	6	5
Churree	•••		•••			2	6	0
They are now in the	Bangur-							
Sugar-cane,	from Rs.	10	8	6	to	20	11	9
Cotton,	"	4	7	0	to	8	4	3
Churree,	,,	2	0	3	to	4	9	0

A marked advance in rents would not naturally lead to the inference that the price of the produce from which they were derived had increased in the same ratio. The known progress of the country and common report undoubtedly point to a general rise in prices, but my enquiries lead me to think that the charge has been very gradual, and, as regards most agricultural produce, inappreciable during the last twenty years. There are no doubt still many living who can remember when both agricultural and skilled labor were available at little more than half their present rates, and the price of some descriptions of produce in universal demand have risen rapidly and noticeably; but a comparison made in 8 pergunnahs of the harvest prices of the principal staples for the last ten years, and the twenty years immediately preceding the former settlement, shows little or no difference in the rates of the two periods. A summary is subjoined, and the details will be found in Appendix A.

The produce which could have been purchased, according to price current left by Mr. Thornton, for Rs. 100, now cost—

				•			I	₹s.	As.	P.
	In Pergunnah	Bhookerheree,	94	11	0,	decrease	per cent.,	5		0
	( ,,	Bhooma Sumbulhera,	99	0	6,	ditto	ditto,	0	15	6
اج	"	Jansuth,	109		4,	increase		9	14	4
Tohseel Jansuth.	"	Kutowlee,	97	14	0,	ditto	ditto,	2		0
an	"	Bidowlee,	97	3	0,	ditto	ditto,			0
<u> </u>		Thannah Bhowun,	102		~ .	increase				0
9	"	Jhinjhanah,	97	12	0,	decrease		2	_	0
ă	"	Churthawul,	100	15	υ,	increase	ditto,	0	15	0
Ä	_	Average	100	8.	1	ł	•	0	8	_ 1‡

For purposes of assessment it was not necessary to extend the enquiry to ordinary market prices, and it is often difficult to obtain the prices current of former years; but

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an investigation was made, by my directions, in Pergunnah Khutowlee, which shows that there, at any rate, the market prices have preserved their ratio to harvest prices, or, in other words, have not increased.

The great extension of the area under cultivation has probably retarded the inevitable increase of the price of most sorts of agricultural produce, while the consequent contraction of grazing land, by lessening the number of cattle, has enhanced their value, and that of articles dependent on them, such as ghee, hides, &c. But though statistics can furnish little information, except as to the increase and improvement of cultivation and the rise of rents, observation and enquiry prove beyond doubt that the agricultural classes are prospering.

The injustice of the system of ignoring proprietary rights and making over estates to agricultural communities at nominal rents is now generally admitted, and even its policy is questioned on general grounds. But there can be no doubt that it was eminently favorable to the accumulation of wealth by the more industrious classes of cultivators, and many of the bodies thus benefited have grown rich beyond all expectation. Similar results, in a modified degree, may be observed in the great mass of industrious cultivating communities. One remarkable indication of the general growth of wealth among the agricultural population is the great increase in the number of gold, or rather silver, smiths, and the amount of occupation which flows into their hands after a favorable harvest. The sums thus spent must be regarded not entirely as tributes to appearance, but also as investments which secure their possessor against the risk of recourse to the village money-lender. Less universal, but still by no means uncommon, are instances of cultivators utilizing their savings by putting them out at interest. The exceptions to the rule of prosperity among the more industrious classes are occasioned either by temporary reverses and consequent debt, which, once incurred, is almost irredeemable, and in rarer instances by rack-renting. The firstof these obstacles can only be removed by a complete change in the habits of thepeasantry. For the second, the most effectual remedy is the spread of that enquiringspirit which every year tends to develope. Each entry in the settlement papers is now carefully noticed by those whom it affects, and extracts of the items relating totheir interests are eagerly sought by them; while I am assured that at former settlements the greatest indifference was shown on these heads. In the meantime, the provisions of Act XIV. of 1863, which allow the Settlement Officer to fix an equitable rent in money in certain cases, will afford a measure of relief to many who are now disheartened by exactions for which they see no hope of remedy.

5. The basis of the assessment has been the rent rates prepared by Mr. Thornton for the former settlement. As well in this district Bates of assessment as in Saharunpore, his estimates of produce, though made twenty years ago, have been found to represent correctly the present yield of the soil, and it has not therefore been necessary to incur the great Rent rates. expense and labor of collecting data for new calculations. But Mr. Thornton's somewhat minute system of classification has not been followed, and the number of circles to which separate rates are applied has been reduced to the minimum allowed by the varying nature of the soil in different parts of the pergunnal. The sand hills to the west have, of course, been treated exceptionally, and the rest of the high land has been divided into two classes, as the poor sandy soil bordering on the ridge of the Bangur could not bear the same rates as the good land through which the canal runs. The whole of the Khadir might, under ordinary circumstances, have formed one circle, but the increase of swamp in the northern estates has crippled their resources, and for the present they cannot be classed with the more favored tract of the south-west of the pergunnah. These circle rates have been supplemented and tested by the two rental estimates founded on the village papers which have been so fully described in the previous reports of Messrs. Keene, Martin, and Colvin. It would, however, be unfair to rely altogether upon these rates,

founded, the one on a classification of soils, the other upon the recorded produce; for assessment based upon actual assets, or on what may be considered to represent them, would evidently bear upon the payers in proportion to their industry. Land gains a high artificial value by the careful processes of good farming, while bad cultivation extracts no adequate return from it; so that a system of rental estimates which varies with amount of manuring and description of produce might show widely different results in two estates of precisely similar natural quality, but in different stages of development. In taking half the net produce from a cultivating zemindar of the more industrious class, we should make no allowance for the progressively increasing cost of production which notoriously attends every addition to the out-turn of land by mere ordinary means; or, if it were not considered that the average production of the country had reached the stage beyond which all improvements are attended with increasing difficulty, it is certain that, by assessing on a highly artificial stage of prosperity, only produced by extraordinary labor, we force the continuance of those exertions under the penalty of loss of property on their cessation. The true principle appears to me to lie between the two extremes of, on the one hand, assessing merely with regard to the natural qualities of the land—a method in appearance scientific, in practice chimerical; and, on the other, of disregarding, with short-sighted policy, all but immediate profit, and limiting the demand entirely by the capabilities of the payer. It remains to ascertain where the line is to be drawn,—what share of the additional produce created by the energy of an industrious cultivating zemindar is to be credited to wages of labor, and what to proprietary profits. The solution of the question may, I think, be attained by assessing estates owned and cultivated by the more industrious classes at the same rates as if the occupants were mere tenants paying rent to a landlord of different family.

It is true that rates thus determined will still be unequal, but it is not unjust that they should in some degree be affected by the character of the tenantry. If the intelligence of this class were more developed, and they were sufficiently awake to their own interests to seek the best market for their labor, all land possessing equal, or nearly equal, natural advantages would have full justice done to it; but where the trammels of custom and of ignorance bind the laborer to his ancestral holding, full weight must be allowed to so important an element in the value of any estates as the quality of the cultivators. The landlord on whose estate a rich and industrious tenantry are firmly settled, by no exertion and at no expense of his own, may fairly be called upon to pay a higher rate than the neighbouring owner of an outlying "muzra" who can only attract cultivators by offering them favorable terms, and laying out money on houses and wells. The latter is behind the former in the race of development, and can only obtain a similar position at the cost of much time and money.

The inequality of receipts will not, however, be one full measure of the difference of produce as raised by good or bad cultivators; for unless gross rack-renting exists—and such cases should in the present state of the law be exceptional—some portion of the increased yield, equivalent, or nearly so, to the wages due to increased labor, will be intercepted by the industrious cultivator. If the rents are paid in kind, the absence of strong inducement will probably relax his exertions, but even in this case it is obvious that his share will fluctuate in the same ratio as the yield, of which it is a fixed proportion, and that he has some though not the same marked interest in increasing the out-turn as if his rent were limited to a fixed sum in money. In the latter case, the incentive to improvement will depend much on the money demand not being more than equivalent to the old grain rent; and, in practice, the landlord who commutes his rents from grain to money is generally induced to do so, not by a direct gain in money, but by the contingent advantages of greater rapidity and security of collection.

On the other hand, where, from listlessness, or a wish to conceal the real value of his estate, a land-holder has grown none but the inferior descriptions of crops, or has allowed much land to lie out of cultivation, I have not thought it necessary to be

guided altogether by the rent rates, which, in default of more specific information, may be considered exponents of actual condition. In such cases, after making allowances for all drawbacks of situation and for want of resources, the rate of assessment has been brought as nearly to the proper level—that is, to the rate determined for estates possessing no greater natural advantages—as was practicable, without endangering the Government revenue. Great caution, however, has been observed to make no sudden or violent changes, and not to place too much dependence on theoretical returns. The cause of variation from the average has been closely investigated in every instance, Where it has been clearly proved to be of a temporary or and often with success. removable nature,—such as a scale of rents lower, without due cause, than those prevailing in the neighbourhood, or want of energy in management, -no allowance has been usually made for it in assessment. Where, on the contrary, it has been established, either directly by the discovery of an obvious reason, or indirectly by a recurring deficiency of assets assignable to no other known cause, that abnormal barrenness of soil exists, the case has been treated as an exceptional one.

My object, then, has not been to equalize all rates, even in land of similar natural quality, but, allowing on the one hand for the remuneration justly due to extraordinary skill and labor, and on the other for unavoidable drawbacks and backwardness of progress, to establish some standard from which deviations in either direction should readily attract notice, and, where necessary, induce rectification. The obvious expedient has been a summary rate on irrigated and unirrigated land. In this pergunnah, a rate which results have shown to be reliable has been obtained by collating the old jumma rate of the circle, modified to half assets with the rate of an excellent rental estimate founded on the village papers and the accurate produce tables drawn up by Mr. Thornton. The general rate thus educed was resolved into proportionate parts for irrigated and unirrigated land in the ratio of 5.7, which calculations, founded on extensive data left by Mr. Thornton, and on the genuine rent-rolls of five villages of the pergunnah, showed to be suitable.

The rates and the manner of their calculation are given in Appendices B. and C. Where there was much culturable land, as in the 2nd Bangur and the Khadir Circles, a malgoozaree rate based on similar data was also applied theoretically as the minimum limit of assessment; but it was necessary to go below it in a few cases where the assets were very small, and the hope of improvement little greater.

The result has been to furnish a pergunnah jumma, trustworthy as a whole, and requiring little change in its distribution.

Other sources of information.

Check, the tendency of a system of estimate like the above is to represent things as they should be, rather than as they are. To some extent it may be legitimate to disregard existing states of fact when enquiry establishes that they are largely affected by the presence of temporary or fortuitous ingredients, and even if all rents were known and expressed in money, it would not necessarily result that assessments should blindly follow them; for actual condition is not so much the limit or measure of assessment, as the starting-point for consideration.

But while in a money-rented district this point is clearly laid down, it can at best be approximately ascertained in a pergunnah where, as here, grain rents prevail; and though, in the face of the ignorance and carelessness of the owners themselves, no amount of investigation can ascertain the exact truth in every case, much information may be collected from the various sources open to the Settlement Officer which may be utilized, not only in the estate itself whence facts are derived, but in others known to be in nearly similar circumstances. I subjoin a list of the methods which I have employed.

- I. Personal inspection.—Every estate was carefully inspected by me in person, and as most of the proprietors in this district are non-resident, the principal cultivators usually accompanied me. In some cases they were able and willing to state approximately the amount of their payments to their landlord; if not, their conversation, and the appearance of their houses, cattle, and crops, enabled me to form some judgment as to whether rack-renting prevailed; or on the contrary, combination and custom had enabled them to intercept more than their legitimate share of the produce, and thus to lessen the apparent assets.
- II. Information derived from zemindars of the neighbourhood.—In most cases I found that the larger owners entrusted their affairs to agents, who kept them in obscurity for their own purposes, and that the smaller proprietors were unable to supply anything but the wildest conjectures; but I obtained valuable information from the intelligent agent of one large landowner, regarding several estates which had formerly been held by his employer either in mortgage or in "mokurraree."

III. "Khusreh kunkoots," or genuine rent-rolls belonging to the zemindars, obtained in 8 villages, viz.:—

		No.	OF ACRES.	RATE (	F RENT.		
		Irrigated.	Un <del>is</del> rigated.	Irrigated.	Unirrigated.		
				Rs. As. P.	Rs. As. P.		
Qazeepoor	•••	209	•••	2 13 3	••• .		
Bhopa	•••	72	•••	4 1 9	•••		
Mahmoodpoor	•••	175	95	3 14 71	2 8 111		
Bedaheree	•••	64	•••	2 7 71	•••		
Buhera Saadat	•••	177	1,199	2 13 31	0 14 10		
Morna	•••	10	480	2 7 0	1 11 21		
Kukrowlee	•••	74	34	2 13 6	1 13 81		
Meemlakheree	•••	17	•••	$3\ 11\ 6\frac{1}{2}$	•••		
		812	1,808	3 4 4	1 12 2		

- IV. Money rents in 16 estates, or parts of estates, ranging from four annas to Re. 1 per "kutcha" beegah.
- V. The Canoongoe's "doul," or rental estimate, to which I give special prominence, as it was the work of an officer himself a member of one of the Jat cultivating communities of the pergunnah, and therefore possessing excellent means of information. His estimate errs occasionally, on the true native principle of regarding the capabilities of the payer more than strict justice; but is, on the whole, very useful.
- VI. A statement of transfers, showing the amount and price of land sold and mortgaged during the term of the last settlement. The number of estates owned by Synds must weaken any deductions of over-assessment from constant transfers. This class openly allow that their expenses are regulated, not by their means, but by the supposed necessities of their position, and they consider any attempt to accommodate themselves to circumstances derogatory to their dignity. With these views, even the whole produce would not save them from debt, and no inference of insufficiency of assets can be drawn from their inadequacy to meet perfectly unregulated demands upon them. Indeed, I have not generally thought it necessary to make any reference to transfers in the remarks appended to the No. II. Statements of Synd Estates; but some clue may often be obtained to the value of an estate by the rate of purchasemoney.
- VII. Financial History.—Ease or difficulty of collection, and the necessity for punitive or coercive measures, have, of course, been carefully considered in every instance; but the lightness and general accuracy of the former assessment, supported as it has been by the introduction of canal irrigation, fortunately negatived the presumption of over-assessment in most cases. In 35 estates the collections have been invariably made with ease; in 34 with some difficulty; in only one by duress.

- VIII. Suits for arrears of rent.—Though the file was carefully examined, little assistance was derived from it,—as in some instances the area was not given; in others, the suit had been laid for arrears of the famine year—an exceptional period; and in others, again, the estimate of the crop had evidently been swelled by the malicious motive which had led to the institution of the suit.
- IX. The rent-rolls of estates held under "Kham" management.—One large estate, and portions of others, confiscated in the rebellion, had been managed for two or three years by the Tehseeldar. The returns were inspected, but they proved to be of little value; and a comparison of the zemindar's papers showed, in the principal case, that the management had been no exception to the proverbial inadequacy of Government officials to carry on private speculations.
- The Government demand has been raised from but I do not believe that its proportion to the net rental has exceeded the prescribed half. The increase is attributable entirely to the introduction of canal irrigation, as the increased revenue derivable from extension of cultivation would not have covered the deficiency occasioned by the reduction of the Government share of the net produce from two-thirds to one-half.
- 7. The engagement papers were in almost every case signed readily and without difficulty. Each lumberdar, as he came forward, was Acceptance of assessment by told that the grounds of assessment were open to him for zemindars. inspection. In some cases, objectors availed themselves of this privilege, and the majority professed themselves convinced by their examination; but in one or two instances valid reasons for reduction were adduced, to which full consideration was given. There was but one obstinate recusant, -the proprietor of the swamped estates near the Joghawalla Jheel; but, precarious as are their proceeds, I cannot doubt that their assessments were exceedingly moderate, as several farmers were willing to take the lease of them for much larger sums than I had fixed. His objections were probably caused more by his litigious character, and the undue expectation of reduction which he had formed from the indulgence shown to him in the assessment of an estate in Pergunnah Poor, than by the severity of the new demand. Even in his case it was not eventually found necessary to have recourse to farm, and by far the greater majority of the zemindars signed in a few hours, without objection or discontent.

MEERUT:
The 9th November, 1863.

C. GRANT,
Assistant, Settlement Department.

Note on assessment of Mozuffernugger irrespective of canal profits.

By the first estimate I made, according to which only irrigation from masonry and earth wells actually thrown into disuse by the canal, and irrigation from rivers, jheels, tanks, &c., was allowed for, the amount due to canal was Rs. 1,48,169. This estimate was disapproved of by Mr. R. Money, Senior Member Board of Revenue, for the reasons recorded in his minute, to be found among the annexures. It was held, that I had not made sufficient allowance for natural capability—that is, that I had not paid adequate consideration to the possibility of constructing "kutcha" wells where water was close to the surface.

2. In obedience to these instructions, I proceeded to make a fresh examination of all the pergunnahs liable to canal irrigation, with the view of ascertaining the depth of water, and the average number of kutcha wells which might reasonably be expected to ply were the canal to stop. The probability of digging pucka wells should not be considered, as any increased profits from such irrigation only covers interest of capital. Taking the division of circles as my basis, and after determining, with respect to natural capability, the amount of well irrigation which might be expected, I applied that average, mutatis mutandis, to each of the mouzahs of the cir-

cle; also, I bore in mind the fact that where full half assets had not been taken by deduced revenue rates, and the initial assessment was reputed to be low, there, obviously, canal profits should be reduced to a minimum. The result of this second estimate, so different to what I recommended, has been to fix canal profits as low as Rs. 74,830, or one-half.

- 3. On the other hand, it may be alleged that I have altogether omitted from my calculations the income from land now cultivated, but which would be lost to the proprietor were the canal to stop. No doubt, cultivation has been immensely stimulated by the facility of irrigating from canals, and there are many estates, which, if thrown back upon their natural capabilities, would retrograde, and emigration of labor take place; but I find it next to impossible to fix with any degree of accuracy what the area likely to be deserted would be, because all the old records have been destroyed. In lieu of making a fancy estimate, I have thought it probable the increasing population will of necessity have to break up every available acre of culturable land, and therefore the retrogression will in the long run be exceptional, and may be treated especially when it does occur.
- In compliance with the suggestion of Mr. R. Money, I experimentally dug a well in Mozuffernugger. I came to water at 20 feet, after digging through substrata of sand; even for drinking purposes the well was of no use, much less for irrigating-in a couple of days it was choked up. I observed the same thing in Surwut, where attempts have recently been made to make two kutcha wells for drinking, but signally failed; there can be no doubt that as a rule kutcha wells cannot be constructed in Mozuffernugger, Poor Chupar, Bhokurheree, and Bhooma Sumbulhaira, the eastern pergunnahs of this district; consequently, there is here an utter dependence on the Ganges Canal, excepting of course any irrigation from masonry wells, tanks, &c. The people say unanimously that they frequently did try to make kutcha wells before the canal was introduced, but finding they fell in after the first rains, or so, they gave them up as impracticable; my own enquiries fully bear out the truth of this statement. Poor Chupar is a remarkable instance of freedom from wells, as will be seen from the return annexed to No. II. Statements. I have no hesitation in saying, that if the canal be withdrawn from these eastern pergunuahs, there would not be produced one-half of the present out-turn of the valuable products, such as cane, cotton, &c.; the difference, then, between an assessment including and one excluding canal profits under any form of account would here be greatest. Had I confined myself to reducing the two-third asset jummas of the last settlement to half assets, or had I taken the summary wet and dry rates fixed under Act XIV. 1863, the fall would have been much greater than that I have proposed.
- 5. Pergunnahs Thanna Bhowun, Shamlee, Kandla, and Kyrana, to the west of the district, have facilities for making earth wells, owing to the proximity of springs, except in the low line of country immediately bordering on the Eastern Jumna Canal, where the soil has become spongy from percolation and excessive flush irrigation. Although wells cannot be made where injury of this kind has occurred, such as in Yarpoor, Bhainswal, Shamlee, &c., still as water has been raised so near the surface, the soil is already humid, and it is questionable whether they would not be much better without any superficial irrigation;—that these estates have deteriorated, and are getting worse instead of better, is as clear as day-light: see my Report No. 107, dated 15th April, 1865. The soil in Pergunnah Shamlee and the Kandla valley is more fertile than anything to be seen in the eastern pergunnahs; hence, the assessments in Shamlee Pergunnah especially are heavier than anywhere else; the amount debitable to canal profits is less in proportion to the natural fertility of soil and means of irrigation. It will be seen, that in many large villages I have retained intact the original jumma.
- 6. However great the labor, I was obliged, in order to execute faithfully the orders of superior authority, to review the whole of the assessments of canal irrigated

estates, village by village; in such a delicate enquiry as this, I cannot expect to have arrived at mathematical precision. The subject does not admit of it; but I have endeavoured to ascertain as correctly as possible the natural capability of each property; and, looking at the assessments proposed in the first instance, have recommended a proportionate reduction, or none at all, as the case required:—see Village Statements No. II. The pergunnahwar result of this revision is as follows:—

Pergun	nah.	Initial jumma, including	4		Jumma of canal irrigated			Canal profits by first estimate.	Canal profits by second estimate.	Balance of jumma after deducting canal profits, second estimate.		
Mozuffernugger Poor Chupar Bhokurharee Bhooma Jowlee Jansuth Khatoulee Boorhana Shikarpoor Bugra Churthawul Jhinjhana		 68,442 59,330 60,770 45,706 58,578 66,311 69,846 1,03,301 81,691 61,257 56,698	As. 0 0 0 0 0 0 0	P. 00000000000	Rs. 55,100 58,615 54,669 28,030 54,333 53,086 25,886 21,520 18,903 31,085	As. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P. 000000000000000000000000000000000000	Rs. 17,800 25,860 14,681 4,625 8,505 13,415 210 2,200 6,017 3,664 3,740	Ra.  8,830 12,290 4,933 5,553 3,716 6,943 210 2,277 8,227 1,850 2,767	59,612 47,040 55,837 42,153 54,862 59,368 69,636 1,01,024 78,444 59,407	0 (0	
Thannab Bhowun Shamlee Kandla Kyrana	Total	 57,081 1,20,057 1,11,410 52,307	10 0 0 0	0	42.774 77,370 78,990 25,730	10 0 0 0	0 0 0	9,101 12,139 21,663 4,549	6,024 5,107 9,456 3,647 74,830	51,057 1 1,14,950 1,01, <b>954</b>	0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	0

Add Rs. 46,342 assessments on Pergunnahs Bedoulee and Gordhunpore where there is no canal, and the revenue for the whole district, independent of canal irrigation, will be ...

Rs. 10,44,297 10 0

The revised jumma of the entire district before the discussion about canal profits was commenced ... Rs. 11,09,127 10 0 (excluding assessments on life masses and permanent settlement.)

- 7. If it be finally determined to abandon an assessment at moiety of present rentals, Government must be prepared, as I have said all along, to submit to this loss of Rs. 74,830, reduced as it has been to the very lowest figure possible, for the sake of the principle of having an assessment unembarrassed by the canal. This loss may by some be considered trifling, but I still adhere to the opinion that Government ought not to throw away the difference for a theory of this kind, however recommendable it may appear; if the jummas of each mehal be apportioned off—so much ordinary, and so much extraordinary revenue—the difficulty about irregularity of canal water supply would be at once obviated; there need be no annual scrutiny, for at the worst the canal will only break down occasionally. When such a misfortune does occur, there is the extraordinary revenue, or a portion of it, as may be considered advisable, to be remitted, the permanent land revenue remaining unaffected.
  - 8. I fail altogether to appreciate the wisdom of measures which sacrifice a considerable amount of land revenue throughout the North-Western Provinces for the sake of a principle which by no means appears vital. It is not sufficient to say that an assessment properly balanced according to the supposed natural capability system (I use the word supposed designedly, for where probable irrigation has to be estimated the data must be supposititious, and that such is the case is proved by the published Reports on the Canal Conference,) would entail a slight loss on Government; everybody knows that in the majority of instances the features of estates are entirely altered after

canal water passes over the surface; numerous wells ready to hand are quite the exception; and even where such a happy state of things does exist, the practicability of making earth wells after superficial irrigation has been extensively applied from canals is questionable. The soil loses that adhesive character so necessary to the construction of wells, and a general tendency to choke up springs by falling in of sides is observed. These difficulties, however, it may be said, apply equally to my proposal of apportioning off the jummas; but there is this difference, that, under my views, errors could be rectified, whereas in the other case they become stereotyped.

I cannot now hope that any arguments I may have to advance at this stage of the discussion will have much effect; but I feel bound to say in my own defence, that had I been able to carry out my own views, I would have ascribed a larger amount to canal profits, than the sum now suggested under the directions of the Senior Member Board of Revenue; for instance, where cultivation had arrived at a "maximum" at the last settlement, there being no well irrigation, it would have been fair to reduce the two-third to half asset jumma, the difference between that and the revised jumma being credited to the canal; where cultivation had increased considerably, obviously this would not be a correct conversion, but in very many Jat villages there was no elbowroom left for the superabundant population; every available acre had been utilized when Mr. E. Thornton appeared on the scene in 1840. Whatever views I may individually hold on this, and what I have called a wholesale charge for imaginary wells, I have put them all aside in order to carry out the instructions of superior authority; and I sincerely trust this vexed question may now receive its solution, the settlement of this district being sanctioned either with or without canal profits. No argument is required to prove the immense advantage to the teeming population of this district by an early sanction to the settlement, which was commenced so far back as October, 1860; any little discrepancies observable may be overlooked, seeing that the general correctness of the assessments have been tested with complete success during the past two years; the valuable time gained by delaying the submission of the General Report has been well applied towards ascertaining the fitness, or otherwise, of the revised jummas.

> S. N. MARTIN, Collector.

### Note on Mozuffernugger Settlement.

I have examined Mr. Martin's Settlement proceedings, with special reference to his estimates of the portion of jumma of canal irrigated estates that should be attributed to canal irrigation, and be remitted if the canal were to be permanently closed, or if the permanent settlement be made irrespectively of the additional assets now derived from the canal. His calculations have been made very elaborately and carefully, but they do not appear to me to fulfil all the requirements of the settlement.

He has given credit for all wells now in existence of which the use has been superseded by canal irrigation, and which might be immediately worked if the canal supply were to be stopped. This, however, in a majority of instances, is not sufficient.

It is sufficient in all cases where, with the sole exception of possible irrigation from masonry wells, an estate is exclusively dependent upon the canal for its irrigation; and this will generally be found to be the case in the sandy portions of the district. It is not intended that the possibility of constructing masonry wells should be taken into account, because, generally, the increased assets derived from the irrigation which they may afford should be regarded as only a fair return for the capital expended in their construction. This rule cannot, however, be applied to masonry wells already in existence; such wells must be regarded, and have been properly regarded by Mr. Martin, as contributing, or as capable of contributing, to the assets fairly chargeable with land revenue.

The defect in his calculations consists in his having omitted to take into account any existing natural facilities for artificial irrigation.

It is possible, that if the supply of canal water were to be suddenly withdrawn without previous notice, the estimate of Mr. Martin would very fairly represent the amount of land revenue proportioned to the *immediate* loss of assets that would be sustained.

The object, however, is to ascertain and determine the amount of land revenue that might be fairly demanded in perpetuity from an estate deprived altogether and for ever of canal irrigation. To this end, it is necessary in the first instance to ascertain the depth at which water is found; and, if the water is not at too great a depth, whether the nature of the soil admits of kutcha wells being easily dug.

Experience teaches us that where kutcha wells can be easily made, they always will be made when required; and in all cases where they can be easily made, the lands should be assumed to be irrigable, independently of the canal, notwithstanding they may now use canal irrigation exclusively.

The jummas to be fixed exclusive of the canal are not those that might be demanded immediately after a sudden and unexpected stoppage of the canal, but such as would be fairly realizable after a year or two, when the agriculturists should have had time to develope the available sources of artificial irrigation.

It has been found that where the culturable area of an estate is all easily irrigable from wells, the assets are not increased by canal irrigation. There are, on the contrary, many instances where the assets have been diminished. This has generally occurred from lands having become swamped by too abundant a supply of water.

Obviously, the canal cannot fairly take credit for any large portion of the assets, if the assets have not been increased by its action.

The consistency of the soil has in many estates been affected by percolation from the canal, so that kutcha wells cannot now be sunk, where they were formerly made without difficulty. In such cases, it is not to be presumed that the former status would be restored on the cessation of canal irrigation, and allowance must be made accordingly.

Irrigation that may be practicable from rivers, jheels, or tanks, is of course to be taken into consideration, equally with such as may be obtainable from wells.

Mr. Martin has allowed 22 acres as the amount of land irrigable from a well with one run. This allowance appears to me to be excessive. The correctness of the estimate should be tested.

Very unfortunately the Nos. II. and III. Statements of the former settlement of this district have been lost, and there is therefore no record of the amount of land that was irrigable from wells independently of the canal, or before the advent of the Ganges Canal. Such a record would have been of material assistance to an Officer engaged in making the required investigation. Much information must, however, be obtainable from the Canoongoes and other Pergunnah Officers, and from the village Putwarees; and here and there, in cases of doubt, or by way of experiment, a kutcha well might be dug to ascertain the possibility of sinking one that will stand. Any cost incurred on this account might be charged against contingencies of the Settlement Department.

This note is given to Mr. Martin, who is requested to revise his proceedings in all cases where revision may appear to be necessary with reference to the above remarks; and he is requested to return the original note, after causing a copy to be made for his own use.

(Sd.) R. MONEY.

# PERGUNNAH BHOKURHAREE.

# Statement showing profits due to the operation of the Ganges Canal.

		2.					3.		
						Area ir	RIGATED BY	CANAL	
Number,		ame of Mouz	ah.		Messun.	Roalee.	Dakur.	Bhoor.	Total.
1	Athance	•••	***	•••	<b>3</b> 67	546	<b></b>		913
2	Behra Thooroc Belrah	·	•••	•••	264 282	387 639			651 949
3 4	Bhedaharee	•••	•••	•••	30	.117		8	155
8	Bhopa	,	•••	•••	494 736	570 · 884	, ₁₀	12	1,076
6	Tissa Teora	•••	•••	•••	640	540	19 11	. 22	1,641 1,213
8	Dowlutpoor	•••	•••		23	196 337	17	4	240
9 10	Dheraharee Raipoor	•••	•••	•••	121 28	96	6	28	487 124
11	Ruhmutpoor	•••	•••		171	226			397
12	Sekunderpoor Kazeepoor	•••	•••	•••	269 116	8 <b>3</b> 106	1	9	853 224
13 14	Kurahra	•••	•••	:::	452	505		162	1,130
15	Kukrolee	•••	•••		270	841 251	4		615
16 17	Khace Khara Khoknee	•••	•••	•••	116 58	441	***		367 49 <b>9</b>
18	Gadlah	• •••	•••		204	860	13		777
19	Gudwara	 Voine	•••	•••	114 87	107 <b>304</b>	•••		221 391
29 21	Mahmoodpoor Mulpoora	majra	•••		240	322	8	***	570
22	Meemla Khare	e	•••		137	167 1 <b>24</b>	5	15	324
23 24	Nirgajnee Nulhara	•••	•••	•••	245 173	349		4	873 537
25	Nulharee	•••	•••	•••	23	282	4	" 1	310
26	Yousufpoor	•••	•••	•••	142	328		48	518
	Tot	al (Chuk Ti	6 <b>8</b> &)		5,802	8,808	127	318	15,055
•	Behra Sadat				279	193	9		<b>4</b> 81
i 2	Bhokurharee	•••	0,04	•••	870	1,895	14	9	2,788
3	Bhoapoor	•••	•••	•••	333	385 315	~·· ₂	•••	38 <b>5</b> 650
4 5	Chourawala Chuchroulee		•••	•••	256	527	2		783
6	Duryabad	•••	•••	•••	6	139			145
7	Duryapoor Sookurtaree	***	•••	•••	20 10	151 325		· 86	207 836
8 9	Seekree	•••	•••	•••	156	<b>456</b>		6	618
10	Ferozepoor	•••	•••	***	2	<b>326</b> 373		8	.826 .383
11 12	Khurpoor Kharee	•••	•••	•••	]	264	•••		264
13	Kishunpoor		•••		290	337	1	• •••, _	.628 271
14 15	Kukrala Mornah	•••	•••	***	12 <b>4</b> 10 <b>6</b>	135 54	1	12 3	164
16	Wuzeerabad	•••	•••		278	555	11	16	860
-	Total (Chu	k Bhokurha	<b>re</b> e)	<b></b>	2,730	6,430	38	91	9,289
1	Burookee		•••	4.1	68	27		2	97
2	Russoolpoor	•••		•••	50	135	11	,	196
3 4	Ruhkura Kussoulee	***				<b>3</b> 93 100	8		501 100
	Total	(Chuk Jou	lee)	. <b></b>	205	655	14	20	894
·		GRAND TO	PAT.		8,737	15,893	179	429	25,238

PERGUNNAH
Statement showing profits due to the operation

1.	2.	·		4.		_	
		_	Revenue	RATE PER I	RRIGATED A	ICRE.	Revenue
Number.	Name of Mouzah.		Meesur.	Roslee.	Dakur.	Bhoor.	Meesun.
			Rs As. P.	Re As. P.	Rs As, P. 1	Re- As. P.	Rs As. P.
1 2 8 4 5	Athance Behra Thooroo Belrah Bhedaharee Bhopa		2 4 0 2 4 0 2 4 0 2 4 0 2 4 0 2 4 0	1 15 6½ 1 15 6½ 1 15 6½	1 1 4½ 1 1 4½ 1 1 4½ 1 1 4½ 1 1 4½	 0 11 111 1 7 2 1 7 2	825 12 0 594 0 0 634 8 0 67 8 0 1,111 8 0
6 7 8 9 10	Tissa Teora Dowlutpoor Dheraharee Raipoor		2 4 0 2 4 0 2 4 0 2 4 0 2 4 0 2 4 0	1 11 0½ 1 15 6½ 1 15 6½ 1 15 6½ 1 15 6½ 1 11 0½	1 8 0 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4	0 11 111 1 7 2 0 11 111 1 7 2 1 7 2 1 7 2 1 7 2	1,656 0 0 1,440 0 0 51 12 0 272 4 0 63 0 0 384 12 0
12 13 14 15 16	Sekunderpore Kazeepoor Kurahra Kukrolee Khaee Khara		2 4 0	1 15 61	1 1 41	1 7 2	605 4 0 261 0 0 1,017 0 0 607 8 0 261 0 0
17 18 19 20 21 22	Khoknee Gadlah Gudwara Mshmoodpoor Majra Mulpoora Meemla Kharee		2 4 0	I 15 61	1 1 41	1 7 2	130 8 0 459 0 0 256 8 0 195 12 0 540 0 0 308 4 0
23 24 25 26	Nirgajnee Nulhara Nulharee Yousufpoor	••••					551 4 0 389 4 0 51 12 0 319 8 0
	Total (Chuk Tissa)			•••	,,,		13,054 8 0
1 2 3 4 5 6 7 8 9 10 11	Behra Sadat Bhokurharee Bhoapoor Chourawala Chuchroulee Duryabad Duryapoor Sookurtaree Seekree Ferozepoor Khurpoor Kharee		1 11 6 4 3 1 11 6 4 3 2 4 3 2 4 3 1 11 6 4 1 11 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 6 4 1 1 1 1	1 8 04 1 8 04 1 11 04 1 11 04 1 18 04 1 11 04 1 11 04 1 8 04 1 8 04 1 8 04 1 8 04 1 8 04	1 1 10 1 2 4 1 2 4 1 8 0	1 1 10 1 1 10  0 11 111 1 1 10 1 1 10 	480 5 0 1,498 11 0  754 7 0 441 6 0 13 10 0 45 5 0 17 4 0 268 12 0 
13 14 15 16	Kishunpoor Kukrala Mornah Wuzeerabad	•••	1 11 6 <del>1</del> 1 11 6 <del>1</del> 1 11 6 <del>1</del> 1 11 6 <del>1</del>	1 8 01 1 8 01 1 8 01 1 8 01	1 1 41	1 1 10 1 1 10 1 1 10	499 8 0 213 10 0 182 10 0 478 14 0
	Total (Chuk Bhokurharee)	•••					4,897 7 0
1 2 3 4	Ruhkura	 	1 12 13	1 5 10½	1 0 112	1 3 8}	119 8 0 87 14 0 152 15 0
	Total (Chuk Joulee)	•••					360 5
	GRAND TOTAL	•••					18,312 4 (

BHOKURHAREE.

# of the Ganges Canal—(Continued.)

		5.	· 													6.						
ON	IRRI	GATED	ARE	<b>A.</b>								ZEV.	ENUE	RA?	ræ	PER	UNI	RRI	GATE	D A	ORB	
Roale	e.	D	aku	r.	Bı	100 <b>T</b> .	•	То	tal.		М	ees	un.	I	Ros	lee.	]	Da.k	ur.	1	3ho	or.
Re A	.s. P	. Re	Aı	. P.	Re	As.	P.	Re	As.	P.	Re	. A	s. P.	Re	A	s. P.	Re	<b>.</b>	a. P.	Rs	- As	. F
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664 189 381 1 163 1 208 1 995	5 0 4 0 5 0 0 0	1:	3 8  1 1 1 15 4 5	0	33 2 234	  14	0 0 0	976 252 766 769 472 2,259 1,284	15	000000	1	6	11	1	6	11	0	15	0	0	12	1
494 1 869 1,103 1 210 1 599 634 1	3 0 6 0 5 0 5 0 5 0	1.	•••	0	91		0	755 999 1,577 467 795 1,183 664	14 0 7 1 7	000000		6	11 11 01 11	0 1 1 1	6	11 11 01 11	0	15 15 15 15	11 11	0	12 12 12 12	1 1 1
244	7 0 0 0 5 0	1		0		18  7 8	0 0	801 1,093 613 1,035	8 8 7	0 0 0	} 1	6	11	1	6	11	0	15	11	0	12	1
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234 1 255 488 1 685 1 490 560 1 397 506 1	1 0 2 0 9 0 5 0 8 0 2 0 2 0 4 0 5 0 0 0 3 0			0	26 1 6 8	 1  14 2 11 15 0 6 13	0 0 0 0 0 0 0 0	780 4,374 650 1,293 1,233 248 327 507 961 490 573 397 1,007 429 268 1,344	12 11 3 9 6 2 3 4 5 0 6 10 5	000000000000000000000000000000000000000	1	1	5 }	1	1	5}	1		98	0	9	3
9,857 1	1 0	4:	3 15	0	87	14	0	14,886	15	0		••				•		٠.			,	
	9 0 8 0	1	 10 3 3		2 22	7  2 	0	158 284 715 136	1	0000	0	12 15 15 15	11	0	15 15	6} 11 11 11	0 0 0	8 8 8	5}	0 0 0	8 8 8	5 5 5 5
895 1	1 0	1.	13	0	24	9	0	1,295	6	0		••				•		,,,				
27,651	4 0	20	. 6	0	558	2	0	46,726	0	0								.,				

PERGUNNAH
Statement showing profits due to the operation

_		2.								7.						
							Reve	NUE	0	N UNIRRI	GA:	FED ARE	۸.			
ry dimber.	Name	of Mousah.		Med	esun	l.	Ro	alee	•	Daku	r <b>.</b>	Bhoon	r.	To	tal.	•
_				Re	As.	P.	Re	As.	P.	Re As.	 Р.	Re As.	Ρ.	Re	Ās.	. 1
1	Athanee		•••	525		0			0					1,297		
2	Behra Thooroo Belrah	•••	•••	378 403		0		_	0		0	10 9	G	932		
4	Bhedaharee	•••	•••	42	15	Ö	167	9	0		J	6 1	0	216	9	
5	Bhopa Tissa	•••	•••	707	_	0			0		_	9 1	0			
7	Teora	•••	•••	1,054		0	1		0	18 14	0		0			
В	Dowlutpoor	•••	•••	32	15	0	280	12	0	16 15	0	3 0	0	333	10	)
9	Dheraharee Reinoor	•••	•••	173		0	1	11 8	0	5 15	0		G			
1	Raipoor Ruhmutpoor	•••	•••	40 244		0	1	11	0					177 568		
2	Sekunderpoor	•••	•••	385		0	118	14	0		0	:		505	•-	
3	Kazeepoor	•••	•••	166	2	0	151	13	0			18	0		7	
5	Kurahra Kukrolee	•••	•••	647	6	0			0	,	0	!	0	1,504 889		
6	Khaee Khara	•••	•••	386 166		0			0	4.0	0	•••		525	_	
	Khoknee	•••	•••		11	0	1		0					496	6	
	Gadlah Gudwara	•••	•••	292	3	0		_	0	12 15	0	•••		1,107	3	
5	Mahinoodpoor I		•••	157 124	10	0	1		0					560		
ı	Mulpoora	•••	•••	343	_	0	461	3	0	7 15	0	•••		812	14	
	Meemla Kharee		•••	196	4	0	l		0	5 0	0	11 5	0		-	
	Nirgajnee Nulhara	•••	•••	350 247		0			0	14 15	0	3 0	0	531 76 <b>2</b>		
;	Nulharee	•••			15	0	403	14	Õ	4 0	0	0 12	0		9	
;	Yousufpoor	•••	•••	203	6	0	469	13	0			36 4	0	709	7	
	Tota	al (Chuk Tisssí.)	•••	8,278	10	0	19,416	18	0	126 6	0	239 6	0	21,061	3	
	Behra Sadat			<u> </u>				_							_	_
	Bhokurharee	•••	•••	304 949	7 5	0	210 2,067		0	9 7 14 11	0	5 4	O	524 3,037	7 0	
-	Bhoapoor	•••	•••	] ~~.		ĺ	420	1	0	***	٦		•	420	1	
	Chuchroules	•••	•••	363	8	0	843	11	ò	2 2	0	•••		709	5	
	Chuchroulee Duryabad	•••	•••	279	5 9	0	575 157	11	0	•••		•••		854 158	6 4	
	Duryapoor	•••	•••	21	-	0	-		ŏ	•••	ĺ	20 15	0	207		
1	Sookurtaree	•••	•••	10	15	0	354	10	0	•••	ı	0 9	0	366	2	
	Seekree Ferozepoor	•••	•••		4	0	497 355		0	•••	1	3 8	0	671 355	11	
	Khurpoor	•••	•••			0	407	0	ŏ	•••	Į	4 10	0			
:	Kharee	•••	•••	Ι.			288		0	•••	ı	•••		288	1	
	Kishunpoor Kukrala	•••	•••	316 135	7 5	0	867 147		0	1 1	9	7 0	0	685 289		
	Mornah	•••	•••	115		0		15	ŏ	1 1	o	1 12	Ö			
	Wuzeerabad	•••	•••	803		Ŏ			٩	11 9	ŏ	9 5	0			
	Total (Chul	k Bhokurharee.)	•••	2,979	1	-	7,016	0	0	89 15	0	52 15	0	10,087	15	_
	Dunales					_					-		_			_
	Burokee Russoolpoor	•••	•••	53 49	8 12	0		<b>2</b> 5	0	5 18	0	1 1	0	75 189	6	
1	Ruhkura	•••	•••		9	o	. 390	15	0	1 9	ŏ	9 8	0	488		
	Kussoulee	•••	•••		••		99	8	٥	•••		•••			8	
	Total	(Chuk Joulee.)	•••	189	8	0	645	14	0	7 6	0	10 9	0	868	5	
1						ᅱ			-1		-		_		7	_

BHOKURHAREE.
of the Ganges Canal—(Continued.)

8.			9.			10.		· · · · · · · · · · · · · · · · · · ·	1				11.			
ne be-			peed	Twen	TY-TWO	ACRES		D TO EAC	e F	LEVEN	UE	DERIVA	BLE FRO	OM WELL	RRIGATION	 v.
Difference of revenue tween irrigated and	irrigated.		Number of wells closed by Canal.	Meesun.	Boslee,	Dakur.	Bhoor.	Total.	M	eesun		Roslee.	Dakur	Bhoor.	Total.	_
Re I	As.	P.							Re	A. I	?.  <b>.</b>	<b>la A.</b> P.	Re	Rs A. P.	Re As. 1	P.
125 297 74 198 264 158 755 394 230 503 469 163 235 370 212	8 13 2 8 6 11 15 1 10 1 12 6 1 14 3 8 13 0 9 14 15 14		2		20		6	     44   	18	•••	0 3:	•••	,	8 11 0		. 0
9,482	8	0	<b>3</b> -	24	36		6	66	54	0	0 70	0 15 0		8 11 0	183 10	0
90 119 141 289 134 159 108 322	10 14 8 5 14 0 14 9 8 15 3 0	00000000000000					::						::			_
4,799	0	0	•••		•••			•••		•••						
83 94 227 37	8 3 3 3	0 0 0			:: ::	:::::::::::::::::::::::::::::::::::::::						 				-
448	1	0	•••							•••					•••	
14,723	9	0	3	24	86		6	66	54	0 0	70	15 0		8 11 0	133 10	0

PERGUNNAH
Statement showing profits due to the operation

1.	2.				12.		
			Rev	ENUE ON WEL	L IRRIGATED	AREA BY DRY	RATE.
Number.	Name of Mouzah.		Meesun.	Roslee.	Dakur.	Bhoor.	Total.
			Rs As, P.	Re As. P.	Re As. P.	Re As. P.	Re As. P.
1	Athanee		·				
2	Behra Thooroo	•••	•••		1 :::		
8	Belrah	•••					
4	Bhedaharee	•••					
6	Bhopa	•••	•••				
7	Tissa Teora	•••	•••		:::		] :::
8	Dowlutpoor	•••	:::			1	:::
9	Dheraharee						
10	Raipoor						
11	Ruhmutpoor	•••	•••			•••	
13	Sekunderpoor	•••	•••			•••	
14	Kazeepoor Kurahra	•••	25 12 0	28 10 0		4 9 0	58 15
15	Kukrolee	•••					
16	Khaee Khara	•••	•••				
17 18	Khoknee	•••		00 15 0		•••	l
19	Gadlah	•••	8 10 0	22 15 0			31 9
20	Gudwara Mahmoodpoor Majra	•••	•••	1			:::
21	Mulpoora	•••			1		
22	Meemla Kharee	•••			,		
23	Nirgajnee	•••	•••				
24 25	Nulhara	•••	•••				
26	Nulharee Yousufpoor	•••	•••		:::	,	:::
İ	-						
	Total (Chuk Tissa.)	•••	34 6 0	51 9 0		4 9 0	90 8 0
1	Behra Sadat			<b></b>	1		l
2	Bhokurharee	•••				1	:::
3	Bhoapoor	•••	•••				
5	Chourawala	•••	•••				
6	Chuchroulee	• •••	•••		•••	•••	
7	Duryabad Duryapoor	•••	***			:::	
8	Sookurtaree	•••	•••				
9	Seekree	•••	. •••				
10 11	Ferozepoor	•••	•••				
12	Khurpoor	•••	•••	1 :::	i		•••
13	Kharee Kishunpoor	•••		:::			
14	Kukrala	•••	•••				
15 16	Mornah	•••	,		!		
	Wuzeerabad	•••			•••		•••
	Total (Chuk Bhokurhan	ree,)					
1	Burokee						
2	Russoolpoor	•••	***				
3	Ruhkura	•••					
4	Kussoulee	•••			•••		
	Total (Chuk Joulee.)	•••					
	GRAND TOTAL	•••	34 6 0				

### BHOKURHAREE.

### of the Ganges Canal.—(Concluded.)

13.	14.	15.
Difference of revenue on area irrigated by wells.	Actual profits due to	Remarks.
Re As. P.	Rs As. P.	
	450 15 0 424 8 0 576 13 0 93 2 0 719 8 0 839 6 0 830 11 0 125 15 0 297 1 0 74 10 0 198 1 0 264 12 0 153 6 0 725 7 0	Excepting the khadir lands, the bangur villages are high and dry; kutcha wells are unknown; 17 masonry wells only, and those are mostly used for watering groves and gardens; average distance of water from surface of soil, 30½ feet; depth of water in wells, 25 feet; masonry wells are said to cost upwards of Rs. 1,000, and the soil is too sandy to admit of the construction of kutcha wells. Suppose it be presumed that one well might be constructed to 100 acres of cultivation, then the account would stand thus:—  Total cultivated area in acres 44,193  One well to 100 acres 442 wells.  Of these 17 masonry wells in existence, the balance, 425 kutcha wells, allow 10 acres of irrigation to a pucka well with water so remote, and 8 acres to a kutcha well.  Acres. Rs As P.
29 10 0	725 7 0 394 14 0 230 3 0 603 8 0 456 5 0 163 0 0 235 0 0 370 9 0 212 14 0 269 15 0 330 14 0 171 14 0 326 3 0	17 masonry wells × 10 = 170 × } 1 6 8 average re-
43 2 0	9,489 6 0	Canal profits by second Estimate, 4,933 0 0  Under orders of Senior Member, Board of Revenue, I have not attempted to make any calculation of the income of lands likely to be thrown out of cultivation by the stoppage of the canal, as I have no data
	256 3 0 1,337 12 0 230 10 0 583 14 0 379 3 0 90 5 0 119 14 0 141 0 0 289 14 0 134 9 0 159 8 0 108 16 0 322 3 0 140 0 0 90 14 0 414 4 0	by me to work it out. I prefer taking it for granted that the high rate of increase in the population will necessarily keep up the cultivation to the mark. The mutiny destroyed all the old valuable records of the district, consequently we have no guide to the actual state of things before canal water was introduced. One thing however is pretty certain, there is no well irrigation in this pergunnah, and therefore there must be a great dependence on the canal.  In opposition to the argument above adduced, I can imagine some might hold the opinion that in such a pergunnah the stoppage of the canal would probably cause superabundant population to emigrate elsewhere for more productive land; time alone can prove it.
•••	4,799 0 0	• •
	83 8 0 94 3 0 227 8 0 37 3 0	
·	442 1 0	
43 2 0	14,680 7 0	

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# Abstract of Statement A. B.

	•			В,			
Number.	Pergunalı.	Name of Mouzah.	Area irrigated by Canal.	Difference of revenue between irrigated and unirrigated rates.	Difference of revenue on area irrigated by wells.	Actual profits due to Canal,	Remarks.
1	[	Athanes	918	451	+-	451	No deduction necessary on account of canal. Original jumma below deduced rates.
2		Behra Thooroo	. 651	191	-	AUDA	Rs. 230 allowed for canal profits.
3	Н	Belrah	. 949	577		577	Rs. 250 canal profits.
4		Bhedhaharee	. 155	93		93	No deduction necessary on account of canal; original jumma low.
6		Bhopa	. 1,076	719	***	719	Rs. 360 canal profits.
6		Tiesa	. 1,641	839	***	859	Rs. 350 ditto.
7		Teora	. 1,213	831		831	Rs. 400 ditto.
8		Dowlutpoor	. 240	126		126	No deduction necessary ; jumma considerably below.
9		Dheraharee	. 487	297		297	Rs. 150 canal profits.
10		Raipoor	1	75	#16	75	Rs. 48 ditto.
11		Ruhmutpoor		W	***	198	Ra. 100 ditto,
19		Sekunderpoor		265	•••	265	Ra. 100 ditto.
13	il	Kazeepoor	1	153	***	158	Ra. 70 ditto.
14		Kurahra	[ *	755	30	725	Ra. 400 ditto.
15	Buordestable.	Kukrolee	. 615	395		395	No deduction necessary ; initial jumms low; and much culturable.
16	AD T	Khacekhara	. 367	230	***	230	100 Rs. canal profits.
17	BE	Khoknee	. 499	504		504	No deduction necessary ; original jumma low.
18		Gadlah		470	18	457	Ra. 150 canal profits.
19		Gudwara "		168	***	163	Rs. 160 ditto,
20		Mahmeodpoor	İ	235	***	235	Rs. 190 ditto,
91 99		Mulpoors	***	1871	476	871	Ra. 100 ditto.
23		Moomis Kharee	1	213	***	213	Rs. 100 ditto.
23		Nirgajnee		270	***	270	Rs. 200 ditto.
25		N-thana		831	***	331	Rs. 180 ditto.
			-	172	411	173	No deduction necessary; jumms low; and much cultur- able.
26		Yousufpoor		326	600	326	Rs. 120 canal profits.
		Total Chuk Tiess	15,055	9,483	25	9,440	Ra. 3,788.
1		Behra Sadet	. 481	256	•••	256	Rs. 250 allowed for canal profits.
2		Bhokurharee	. 2,788	1,338		1,338	Rs. 200 only allowed for canal profits; much cultura- ble area, and soil mostly pro- ductive.
		Bhospoor	. Ball	231	***	231	No deduction necessary on account of canal; original jumma moderate.

				<b></b>			
Number.	Pergunnah.	Name of Mouzah.	Area irrigated by Canal.	Difference of revenue between irrigated and unirrigated rates.	Difference of revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks,
4		Chowawala	650	584		584	No deduction necessary on account of canal; much cul- turable land left.
5		Chuchroulee	783	379	•••	879	Rs. 100 canal profits.
6		Duryabad	145	90		90	No deduction necessary; revised jumma moderate; and much culturable.
7		Duryapoor	207	120	•••	120	No deduction, for the same reasons as above.
8		Sookurtaree	336	141	•••	. 141	Ditto.
9		Seekree	618	290		290	Rs. 200 canal profits.
10		Ferozepoor	326	135	•••	135	No deduction; jumma below deduced rates; and much culturable.
11	8d.)	Khurpoor	383	159	***	159	No deduction for the same reasons as above.
12	(Continued.)	Kharee	264	109		109	Ditto.
13	2)	Kisł unpoor	628	322		322	Rs. 30 canal profits; initial jumma low.
14	HOKURHARE.	Kukrala	271	140		140	Rs. 55 ditto ditto.
15	Виок	Mornah	164	91	<b></b> -	91	No deduction necessary on account of canal; jumma moderate.
16		Wuzeerab <b>a</b> d	860	414	•••	414	Rs. 210 canal profits.
		Total, Chuk Bhokurharee	9,289	4,799		4,799	
1		Burokee	97	84	•••	84	Rs. 50 allowed for canal profits.
2		Russoolpoor	196	94	•••	94	No deduction necessary; jumma much below deduced rates.
3		Ruhkura	501	227	•••	227	Rs. 100 canal profits.
4		Kussoulee	100	37		87	No deduction necessary; jumma below deduced rates.
		Total, Chuk Joulee	894	442		442	
	ال	GRAND TOTAL	25,238	14,724	.48	14,681	Rs. 4,983
							the largest of May C. Countie

The reason why so small a sum has been allowed for canal profits, is the lowness of Mr. C. Grant's revised jummas,—being frequently below average deduced revenue rates. I have examined each willage, and fixed such a sum as I believe will stand the strain of stoppage of canal.

S. N. MARTIN,

Collector.

PERGUNNAH

# Statement showing profits due to the

1.	2.			3.				
			Area ir	RIGATED I	BY CANAL.		Reven	UE RATE PE
	Name of Mouzah.							
Number.		Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Meesun.	Roslee.
							Rs. As. P.	Rs. As. P
1 2	Budheewala Bummunharce	10	22	1		33	1	
3	Beebecpore	17 13	314 201	25	16	372 214	1	
4 5	Puchenda Khoord	96	138	.20	8	262	11	
6	Chandpore Rampore	29 90	249 331	3 12	28 4	309 437	11	1
7	Raice	24	453	5	4	486		l
8	Sisona Sojroo	152 20	833	76	3	1,064		
ıŏ	Shahb-nod-deen-pore	38	243 465	46 31		309 534	2 13 32	2 1 9
11	Shairpore	55	193	21	2	271		
12	Shairnugger Mirzapore	85 49	374 223	8		467	1 1	ł
14	Moozuffernugger, Puttee	43	220	1		273		
	Aboosaced	8	196	3	•••	207	İİ	
15 16	Ditto, Puttee Syud Taha Ditto, ditto Awuz Alee	₂	78 120	7 \$	•••	80 125	1	ŀ
7	Ditto, ditto Nusroolla Khan	ī	30			31	H	ŀ
18	Ditto, ditto Wujh-ood deen Mimlana	5	58	2		65	11	}
	militalia	76	191		12	279	J	
į	Total, Chuk Moozuffernugger	770	4,707	264	77	5,818		
1	Kharee Chuk Jansuth	37	223	13	•••	273	2 8 114	1 12 8
1	Bijoopoora Chuk Chuppai	110	114	1		225	8 12 11	2 0 8
1	Kookra	145	623	88		856	4 12 4	2 11 4
1	Dutyana	494	575	83	9	1,111	2 14 2	2 1 9
1	Tigree Beeharee, Puttee Puhar Khan	18	134		97	249	2 3 2	1 11 4
2	Ditto, Punj Puttee	5 6	143 461	 4	 15	148 486	1 }	
3	Bheemdour	39	60	i		100		
5	Bheckee Jut Mirjhara	3	260			263		
6	Dundhara	38 18	59 293		19 29	121 <b>34</b> 0	2 14 2	208
7	Nerana	20	296		2	318		
8 9	Humayunpore Yusufpore	 10	37 282		•••	37 299		•
ō	Sulaj-ood dee	10	55			65	2 14 2	2 11 2
•	Total, Chuk Goorh	149	1,946	17	65	2,177		
1	Jilmaspore	112	243	28		383	2 14 2	2 11 2
2 3	Bujharee	183	144	143		470	2 14 2	2 11 2
4	Bilaspore	162 236	428 443	11 7		601 686	2 14 2 2 14 2	2 11 2
5	Bunnee, alias Bhaghonwalce	273	427	19	6	. 725	2 14 2	211 2
7	Puchenda Kulan Surwut	170 73	632	81	3 79	936	2 14 2	2 11 2
8	Moostufabad	221	945 401	211 49	78	1,307 671	2 14 2 2 14 2	2 11 2
9	Mukhyalee	172	551	52	20	795	2 14 2	2 11 2
0	Medpore Megahkharee	51 208	12 <b>2</b> 650		46	219	2 14 2	2 11 2
2	Nusseerpore	208	479	 81		865 589	2 14 2 2 14 2	2 11 2
į	-			-				
	Total, Chuk Puchenda Kulan	1,890	5,515	682	160	8,247		
- 1	GRAND TOTAL	3,613	13,837	1,098	408	18,956		

MOOZUFFERNUGGER.

operation of the Ganges Canal.—(Continued.)

4.			5.								
IRRIGATED AC	DRE.		Revent	UE ON IRRIGATED	AREA.						
Dakur.	Bhoor.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.					
Re- As. P.	Re As. P.	Re As. P.	Rs As. P.	Re As. P.	Re As. P.	Re As. P.					
1 14 O	0 14 111	28 5 0 48 2 0 36 13 0 271 14 0 82 2 0 254 14 0 68 0 0 430 8 0 566 10 0 107 10 0 155 12 0 240 12 0 138 13 0  22 11 0 5 11 0 2 13 0 14 3 0 215 4 0	46 7 0 663 2 0 424 5 0 291 6 0 525 13 0 699 0 0 956 11 0 1,750 2 0 523 2 0 982 0 0 407 9 0 789 13 0 470 15 0 413 14 0 154 2 0 253 7 0 63 6 0 122 8 0 408 6 0	1 14 0 46 14 0 37 8 0 5 10 0 22 8 0 9 6 0 142 8 0 86 4 0 58 2 0 39 6 0 15 0 0 1 14 0 5 10 0 13 2 0 5 10 0 3 12 0	14 15 0 7 8 0 26 3 0 3 12 0 2 13 0 1 14 0 11 4 0	76 10 0 773 1 0 461 2 0 608 4 0 639 12 0 980 2 0 1,037 13 0 2,374 15 0 655 0 0 1,147 12 0 604 9 0 1,045 9 0 611 10 0 442 3 0 167 4 0 264 12 0 66 3 0 140 7 0 629 14 0					
		2,180 13 0	9,940 0 0	495 0 0	72 1 0	12,687 14 0					
1 10 6		94 10 0	399 9 0	21 9 0	***	5]5 12 U					
2 4 73		413 6 0	233 1 0	2 5 0		648 12 0					
2 7 41 1 14 0 	0 14 111 1 8 73	691 12 0 1,425 9 0 39 9 0 14 7 0 17 5 0	1,688 2 0 1,214 5 0 228 15 0 292 8 0 943 0 0	216 9 0 61 14 0  7 7 0	8 7 0 149 5 0  19 10 0	2,596 7 0 2,710 3 0 417 13 0 306 15 0 987 6 0					
1 13 9 <del>]</del> 1 13 9]	1 4 11	112 9 0 8 11 0 109 10 0 51 15 0 57 11 0  28 14 0 28 14 0	122 12 0 531 14 0 120 11 0 599 6 0 605 8 0 75 11 0 576 14 0 148 8 0	1 14 0 9 5 0  13 0 0	24 14 0 37 15 0 2 10 0	237 3 0 540 9 0 264 8 0 689 4 0 665 13 0 75 11 0 618 12 0 177 6 0					
		430 0 0	4,016 12 0	81 10 0	85 1 0	4,563 7 0					
1 6 3½ 1 6 3½ 1 6 3½ 1 6 3½ 1 6 3½ 1 6 3½ 1 6 3½ 1 6 3½ 1 6 3½	1 1 0½ 1 1 0½ 1 1 0½ 1 1 0½ 1 6 3½ 0 14 11½ 2 11 2½ 1 6 3 1 1 0½ 1 1 0½	323 3 0 528 2 0 467 8 0 681 0 0 787 13 0 490 9 0 210 10 0 637 12 0 496 5 0 147 3 0 600 4 0 83 11 0	656 2 0 388 13 0 1,155 11 0 1,196 3 0 1,153 0 0 1,841 8 0 2,551 11 0 1,082 12 0 1,487 13 0 329 7 0 1,755 2 0 1,293 6 0	39 0 0 0 199 3 0 15 5 0 0 26 7 0 112 13 0 293 14 0 68 4 0 72 7 0	 8 6 0 2 13 0 2:0 7 0 27 13 0 48 15 0 7 7 0 	1,018 5 0 1,116 2 0 1,638 8 0 1,886 15 0 1,975 10 0 2,447 11 0 3,266 10 0 1,758 12 0 2,084 6 0 525 9 0 2,362 13 0 1,489 14 0					
		5,454 0 0	14,891 8 0	949 14 0	305 13 0	21,601 3 0					
		10,729 11 0	32,612 4 0	1,778 13 0	620 11 0	45,741 7 0					

PERGUNNA H
Statement showing profits due to the

1.	1 2.	1		6.	<u> </u>	1	<del></del>
		REVEN	IN RATE PER	: UNIRRIGAT	ED ACRE.		REVENUE
Number.	Name of Mouzah.	Meesun,	Rosies.	Dakur.	Bhoor.	Mecsun.	Boslee.
_		Re As. P.	Re As. P.	Ra As. P.	Rn As. P.	Re- As. P.	Ro As. P.
1 2 3 4 5 6 7 8 9 10 11 12 18 14 15 16 17 18 19	Budheewala Bummunharee Beebeepore Puchenda Khoord Chandpore Rampore Raiee Slaona Sojroo Shahb-ood-deen-pore Shairpore Mozuffernugger Mirzapore Mozuffernugger, Puttee Aboosaeed Ditto, Puttee Syud Taha Ditto, ditto Awuz Alee Ditto, ditto Wujh-ood-dee Mimlana	1 6 1	1 6 1	1 4 2	0 14 41	13 13 0 23 8 0 17 15 0 132 10 0 40 1 0 124 6 0 33 2 0 210 0 0 27 10 0 52 8 0 76 0 0 117 7 0 67 11 0 11 1 0 2 12 0 1 6 0 5 15 0 105 0 0	30 6 0 433 14 0 277 12 0 190 11 0 344 1 0 457 6 0 626 4 0 1,151 1 0 335 13 0 642 9 0 258 11 0 516 13 0 308 2 0 270 13 0 100 14 0 165 13 0 41 7 0 50 2 0 263 14 0
	Total, Chuk Moozusternugger					1,063 18 0	6,501 6 0
1	Kharee Chuk Jansuth	1 8 91	1 3 95	1 1 0		45 13 0	275 14 0
1	Bijoopoora Chuk Chupçai	1 7 51	1 7 5}:	1 11 0		161 2 0	167 0 0
1 1 1 2 3 4 5 6 7 8	Kookra Dutyana Tigree Beeharee, Puttee Puhar Khan Ditto, Punj Puttee Bheemdour Bheekee Jut Mirjhara Dundhara Nerana Humayunpore Yusufpore Sulaj-ood-dee	2 2 41 1 7 51 1 3 101 1 7 52	2 2 4 1 7 5 5 1 3 10 1 1 7 5 2 1	2 4 8 1 5 4 ···	0 15 0 0 10 61 0 15 0	811 8 0 724 15 0 22 6 0 7 5 0 8 13 0 57 4 0 4 6 0 55 12 0 26 7 0 29 6 0	1,388 8 0 843 12 0 166 7 0 209 13 0 676 8 0 88 1 0 381 9 0 86 9 0 429 15 0 434 6 0 54 5 0 413 13 0 80 11 0
	Total Chuk Goorh		•••			218 11 0	2,855 10 0
1 2 3 4 5 6 7 8 9 10 11 13	Jilmaspore Bujharee Budheree Bilaspore Bilaspore Bunnee alias Bhaghonwalee Puchenda Kulan Surwet Moostufabad Mukhyalee Megahkharee Nu:seerpore	1 7 55 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55 1 7 55	1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4 1 5 4	 1 1 03 0 13 0 1 1 04 0 15 0 0 15 0 0 16 0	164 5 0 268 8 0 237 11 0 346 14 0 400 9 0 249 0 0 107 2 0 324 4 0 252 6 0 74 13 0 305 3 0 42 9 0	356 0 0 211 4 0 628 0 0 650 0 0 626 9 0 1,000 11 0 1,386 10 0 588 6 0 808 8 0 179 0 0 953 12 0 702 13 0
	Total, Chuk Puchenda Kulan		***	•,•	•••	2,773 4 0	8,091 9 0
_ [	GRAND TOTAL			***		5,321 8 0	20,243 2 0

MOOZUFFERNUGGER.

operation of the Ganges Canal.—(Continued.)

7	٠.			8.	9.		10.					
on unieri	GAT	ED ARGA.		e be-	d by	TWENT	TWENTY-TWO ACRES ALLOWED TO BACH WELL.					
Dakur		Bhoor.	Total.	Difference of revenue tween irrigated and irrigated rates.	Number of wells closed canal.	Meesun.	Roslec.	Dakur.	Bhoor.	Total.		
Re As.	P	Re As. P.	Re As. P.	Re As. I								
1 4 31 8  25 3 3 12 15 2 6 5 95 12 57 15 39 1 26 7 10 1 1 4	000000000000000000000000000000000000000	7 3 0 25 3 0 3 10 0 3 10 0 2 11 0 	45 7 0 503 4 0 295 11 0 355 11 0 413 1 0 600 8 0 679 5 0 1,459 8 0 421 6 0 734 2 0 370 15 0 644 5 0 377 1 0	269 13 165 7 252 9 226 11 379 10 368 8 875 7 234 10 413 10 233 16 401 4	0 0 1 0 0 1 0 0 0 0 0 2 0 2 0	 1 2   8 18	 19  18    96 62 	 1     6 7 	 1  2   	22  22  22  110 88		
3 12 8 13 3 12  2 8	0 0 0	   10 12 0	285 10 0 109 11 0 172 5 0 42 13 0 89 9 0 379 10 0	57 9 9 92 7 9 23 6 9 50 14	0 0 0 0	  	  	  				
332 7	0	69 4 0	7,969 14 0	4,718 0	6	29	195	14	4	242		
13 13	0		335 8 0	180 4					•••			
1 11	0		329 13 0	818 15	o				•••	***		
201 14 44 0  5 5 2 5  6 11  9 5	0 0 0 0	8 7 0 63 14 0  14 1 0  17 13 0 27 3 0 1 14 0 	1,851 14 0 1,621 2 0 252 11 0 217 2 0 704 11 0 146 10 0 385 15 0 166 13 0 483 9 0 465 10 0 54 5 0 437 13 0 95 6 0	1,089 1 0 165 2 0 89 13 0 282 11 0 90 9 0 154 10 0 97 11 0 205 11 0		.8     	32         			44  22   93		
22 10	0	60 15 0	3,157 14 9	1,405 9	2	9	35	•••		44		
37 5 190 10 14 11 9 5 25 5 108 0 281 4 65 5 69 5	0 0 0 0 0 0 0 0 0	 6 6 9 2 7 0 8\$ 0 0 42 9 0 43 2 0 6 9 0	557 10 0 670 6 0 880 6 0 1,006 3 0 1,058 13 0 1,360 2 0 1,858 0 977 5 0 1,172 12 0 296 15 0 1,265 8 0 745 6 0	460 11 (445 12 (758 2 (880 12 (916 13 (1987 9 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1987 13 (1	1 2 2 1 1 1 1 1	 17  17 8  29  5 5	14  26 32  53  12 17	 13  1 4  6 		 44  44 44  88  22 22		
801 2	0	184 1 0	11,850 0 0	9,751 3 (	8	52	101	18	5	176		
1,417 9	0	886 9 0	27,368 12 0	18,372 11 (	18	98	363	36	9	506		

PERGUNNAH
Statement showing profits due to the

۱.	2.			11.		
<b>-</b> !			Revence det	H'ABLE PROM	WELL BRRIGATIO	ж.
	Name of Mousah.	Mcesun.	Roslee.	Dakur.	Bhoer.	Tot.l.
-		Re As. P.	Re As. P.	Re As, P.	Ro As. P.	Re As. P
	Budhcewala	 2 18 0	40 2 0	1 14 0	0 15 0	45 2
i	Bummunharee Beebeepore	2 10 0			1	45 2
١	Puchenda Khoord		***	1	1	
	Chandpore Rampore	5 11 0	39 0 0	***	1 14 0	45 9
	Raiee	***		***	(	***
	Sisons	***	•••			***
1	Sojroo Shahb-ood doen-pore	22 10 0	202 12 0	11"4 0	***	236 10
i	Shairpore	51 0 0	130 15 0	13 2 0	0 15 0	196 0
	Shairnu.ger Miraspore	***	•••	***	***	***
j	Monzuffernugger, Put t e e	4			***	***
	Aboosseed	-+4				***
	Ditto, Puttee Syud Taha Ditto, ditto Awas Alee	***	***	***		4-1
1	Ditto, ditto Nusroolla Khan	***			***	***
	Ditto, ditto Wujh-ood-dee Mimlana	917	***	***		***
	Ministra					
	Total, Chuk Moosuffernugger	82 2 0	411 15 0	26 4 9	3 12 0	<b>523 15</b>
	Kharee Chuk Jansuth	***	***			*-*
	Bijoopoora Chuk Chuppai			***	***	***
	Kookra	38 3 0	86 11 0	9 13 0		134 11
ı	Dutyana Tigree	**-				***
1	Becharee, Puttee Puhar Khan	***		***		***
1	Ditto, Punj Puttee					***
	Bheemdour	26 0 0	26 9 0		••	52 9
ì	Jot Mirjhara			***	174	141
1	Dundhara	j	***			
	Nerana Humavunpore		45 0 0	144		45 0
	Yusufpore		••	***		
	Sulaj cod-dee					***
İ	Total, Chuk Georh	26 0 0	71 9 0	***	***	97 9
	Jilmaspore ,	49 1 0	37 13 0	18 2 0		***
1	Bujharee !	49 1 0	37 13 0	18 2 0		105 0
	Bilaspore	40	*4#	***		***
-	Bunnee, al-as Bhaghonwalee Puchenda Kulan	49 1 0 28 1 0	70 4 0 86 6 0	166	· · · · · ·	120 11 115 <b>0</b>
	Surwut	***			***	110 0
-	Moostufabad Mukhyalee	83 11 0	148 0 0	8 6 0		235 1
1	Medpore	14 7 0	<b>32</b> 6 0	***	5 5 0	52 <b>2</b>
	Mogahkharee	14 7 0	45 14 0		•••	60 5
İ	Nuaseerpore	***	***	***	***	
	Total, Clink Puchenda Kulan	233 12 0	415 11 0	83 7 0	5 5 0	688 3
-	GRAND TOTAL	380 1 0	985 12 0	69 8 0	i_	3.440
1	GRAND TOTAL		***********		9 1 0	1,444 6

## MOOZUFFERNUGGER.

operation of the Ganges Canal.—(Concluded.)

15.	14.	13.			12.		
	ue to	venue gated	ES.	REA BY DRY B	IRRIGATED A	NUE ON WELL	Revi
Remarks	Actual profits due to canal.	Difference of revenue on area irrigated by wells.	Total.	Bhoor.	Dakur.	Roslee.	Meesun.
	Re As, P.	Rs As. P.	& As. P.	Re As, P.	Re As. P.	Rs As. P.	Rs. As. P.
	31 3 0 253 13 0 165 7 0 252 9 0 210 9 0 379 10 0	16 0 0  16 2 0	29 12 0  29 7 0	0 14 0  1 13 0	1 4 0  	26 4 0  24 14 0	1 6 0 2 12 0
	368 8 0 875 7 0 234 10 0 328 5 0 157 14 0 401 4 0 234 9 0	85 5 0 75 12 0	 151 5 0 120 4 0	0 14 0	7 9 0 8 13 0	132 11 0 85 11 0	 11 1 0 24 14 0
पृष्टपा	156 9 0 57 9 0 92 7 0 23 6 0 50 14 0			  	•••	  	  
c pergun	4,524 13 0	193 3 0	30 12 0	3 9 O	17 10 0	269 8 0	40 1 0
he entir	180 4 0			•••			
f canal in t	318 15 0	••• •		•••			
lowed as profits of canal in the entire pergunnsh.	705 0 0 1,089 1 0 165 2 0 89 13 0	39 9 0  	95 <b>2</b> 0	  	9 3 0  	68 12 0  	17 3 0  
8,830 allowe	282 11 0 70 4 0 154 10 0 97 11 0 205 11 0 200 3 0	20 5 0	32 4 0	•••		19 ¹¹ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 3 0
		12 11 0	32 5 0			32 5 0	
	1,372 9 0	<b>33</b> 0 0	64 9 0			51 6 0	13 3 0
	460 11 0 403 9 0 758 2 0 880 12 0	42 3 0	52 13 0 	•••	17 5 0 	20 9 0	24 15 0 
	860 8 0 1,036 9 0 1,408 10 0 704 2 0 911 10 0	56 5 0 51 0 0 06 11 0			1 5 0 5 5 0  8 0 0	38 2 0 46 15 0  77 13 0	24 15 0 11 12 0  42 9 0  7 5 0
	206 2 0 1,079 4 0 744 8 0	22 8 0 28 1 0 	29 10 0 32 4 0	4 11 0		24 15 0	7 5 0
	9,444 7 0	06 12 0	31 7 0	4 11 0	31 15 0	226 0 0	118 13 0
	17,800 3 0	72 8 0	1 14 0	8 4 0	58 12 0	615 10 0	89 4 0

# Abstract of Statement A. B.

No.	Pergunnah.	Name of Mousah.	Area irrigated by Canal.  Difference of Revenue between irrigated and unirrigated rates.  Difference of Revenue on area irrigated by wells.	Remarks.
		**- **		Rs. 30 allowed.
1		Budheewala Bummunharee		Rs. 150 ditto.
2	- [			Ra. 100 ditto.
8	i	Beebeepore		Rs. 50 only allowed.
4				Rs. 200 allowed.
6		Chundpore		Rs. 250 ditto.
7		Rampore		Rs. 270 ditto.
8	j.	0!		Rs. 400 ditto.
9		Sa-5-40		Rs. 140 ditto.
10		05 -15 13		Rs. 200 ditto.
11		Shairpore		No deduction necessary; as-
12	İ	Shairnuggur		sessment irrespective of canal, Rs. 200 allowed for canal
13		Mirzapore		profit. Ra. 100 ditto. ditto.
14		Mozuffernugger, Puttee		Rs. 40 ditto ditto.
15		Ditto, Puttee Syud Taha,		Ra. 60' ditto ditto.
16	- 11	Ditto, Ditto Awus Ali,		Ra. 60 ditto ditto.
17	MOSUPPERMUGGER.	Ditto, Ditto Nusrcolla Khan		No deduction necessary, can al
18	5	Ditto, Ditto Wujhooddeen,		irrigation limited. Ra. 40 allowed.
19	NA C	Mimlana		Rs. 150 ditto.
	W	Total, Chuk Moozuffer- nuggur	-	
ı	- [ ]	Kharee (Chuk Jansuth),	-	Rs. 80 allowed for canal pro-
1		Bijoopora (Chuk Chuppar)		fits. Rs. 200 allowed,
-1		Kookra	<b>-</b> -	Bs. 300 ditto.
1		Dutyana	-	Re. 400 only allowed.
1		Tigree	_	Rs. 100 allowed.
1		Biharee, Puttee Puhar Khan		Re. 70 ditto.
2		Ditto, Punj Puttee		Rs. 300 ditto.
3		Bhundouz		Rs. 50 ditto.
4		Bheekee		Rs. 155 ditto.
5		Jut Mujhara		Rs. 60 ditto.
6		Dhundhera		No deduction necessary; as- sessment irrespective of canal. Rs. 200 allowed.
8		Homayonpore		No deduction necessary, canal irrigation being a mere trifle. Bs. 100 allowed.
10		Sullajooddee		Ra. 80 ditto.
10	l	m		
		Total, Chur Goden	3-17   -1400   00   1/01	

R

Pergunah,	Name of Mousah.	Area irrigated by Canal,	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
		Rs.	Rs.	Rs.	Re.	
	Пливароге	383	461	***	401	Allowed Rs. 150 only; no kutchs wells to be seen.
	Bijharee	470	446	42	404	Rs. 400 allowed,
	Budheres	601	758	**1	758	Rs. 400 Ditto.
df.)	Bilaspore	686	881	***	881	It is difficult to say what to allow where there are no kutcha wells—say Rs. 600.
yer (sed	Bunee, alias Baghorwalee,	725	916	Ko	860	Rs. 300 allowed for canal profits.
\$	Puchenda Kulan	936	1,087	51	1,036	Rs. 600 allowed,
	Surwat	1,807	1,409	***	1,409	Rs. 400 only allowed.
PERFOR	Monetufsbad	671	811	107	704	Rs. 400 ditto. The pucks wells on this estate cost Rs. 2,200 and 1,500.
6090	Mukhyalee	795	912	***	912	Rs. 400 allowed,
<b>A</b>	Medpore	219	329	28	206	Rs. 50 only allowed.
	Megshkharee	865	1,097	28	1,069	Ra. 400 allowed.
	Nusseerpore	22.0	744	***	744	Es 200 ditto.
	Total, Chuk Puchenda Kulan	8,247	9,751	507	9,444	
	GRAND TOTAL	18,956	18,878	573	17,800	Rs. 8,830 allowed as profits of canal in the entire pergunah. This is not much, surely.
	Mostorysandogen—(Cosciaded.)	Bijharee Budheree Bilaspore  Bunee, alias Baghorwalee, Puchenda Kulan  Surwut  Moostufabad  Mukhyalee  Medpore  Megahkharee  Nusseerpore  Total, Chuk Puchenda Kulan	Rs.   383   Rs.   383   Rs.   383   Rs.   383   Rs.   383   Rs.   383   Rs.   383   Rs.   383   Rs.   383   Rs.   383   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.   470   Rs.	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Water in this pergunuah is distant twenty feet, and kutchs wells are not known. Mr. Thornton distinctly mentions this in his Settlement Report, and I have myself been all over the pergunuah. I can certify that kutchs wells are not feasible.

I have had a kutcha well dug in my prosence: water appeared at twenty feet in a sandy substrata not fit for irrigation. The same results have been obtained at Surwut, about a mile from Mozuffernugger.

In proof of the correctness of this estimate of canal profits, I would cite actual jummabundees taken from Lalla Oodey Ram's banking books for two years previous to introduction of Canal, and one year after canal in full play.

#### Mousah Budheree, Pergunnah Mosuffernugger.

					Tre.	Д.,	E.
1258 and 1260 Fuelee,	Average net rental	* ***	***	***	2,615	0	0
previous to canal.	Government demand	***	***	***	1,600 3,621	0	0
1266 Fuslee, after in-	Actual net rental by M	lahajuna' bo	oks filed in	ı office,	3,621	9	8
troduction of canal.	Government demand, is	neluding can	al profits	***	1,900	0	0

Increase in rental by canal, Rs. 1,006, or Rs. 37-8-0 per cent.

Increase in Government demand, at the very lowest computation, 19 per cent., which would represent a fall of Rs. 361, I have allowed Rs. 400.

S. N. MARTIN, Collector.

PERGUNNAH
Statement showing Profits due to

1.		2.						3.
			•				A	REA IRRIGATED
Number.	Nam	e of M	louzah.			Meesun.	Roslee.	Dakur.
	Simbh alki							
1 2	Qootubpore	•••	•••	•••		17	98	•••
-	Qootaspore	•••	•••	•••	***	642	652	
	Total, Chuk Mozu	uffernu	ıgger	•••		659	750	•••
1	Mahmoodpore Buha	anee	•••	•••		234	847	1
2	Bussehra Hossenpor	re	•••	•••		1,133	2,743	14
3	Bhooraharee	•••	•••	***		78	143	
4	Phulaoda (5 Biswas)	)	•••	•••		179	111	
5	Ditto (15 ditto)	•••	•••	•••		541	206	
6	Tikola	•••	•••	•••		108	98	23
7	Chupra	•••	•••	•••		148	173	12
8	Chuppar	•••	•••	•••	•••	897	866	8
9	Khowaja Nugla	•••	•••	•••		126	270	
10	Nugla Rutta	•••	•••	***		258	<b>3</b> 00	
11	Sulaimpore	•••	•••	•••		116	57	22
12	Khoodds	•••	•••	•••		820	677	4
13	Kolaharee	•••	•••	•••		120	118	
14	Lukhmoutee	•••	•••	•••	•••	75	78	
15	Muhraipore	•••	•••	•••	•••	. 1 <b>2</b> 0	293	5
16	Huraintee	•••	***	***		144	196	13
	Т	otal, C	huk Chu	ıppar		4,597	6,711	97
1	Purace (Chuk Goorl	h)	•••	•••		154	278	45
2	Burla (Chuk Rurla)	•••	•••	•••		707	1,058 .	98
1	Kalawala (Chuk Ruz	koolla	pore)	,		8	•••	
1	Boocha	•••	•••	•••		40	<b>43</b>	•••
2	Shukkurpore	•••	•••	***		108	18	
3	Nusroollahpore		•••	•••		•••	. <b>a</b>	
4	Noornuggur	<b></b>	•••	***		101	30	
	Total, Chuk Bhainsv	val Sik	undurpo	)Te		249	94	
	i				- 1-			

POOR. the operation of the Ganges Canal.—(Continued.)

		4.									
et Canal		R	EVENUE RATS PER	PRIGATED ACRE.							
Bhoor,	Total.	Meesun.	Roslee.	Dakur.	Bhoor.						
		Re As. P.	Re As. P.	Ro As. P.	Re As. P.						
pde	115	}2 4 3	1 11 04	111	0 11 114						
9	1,803	ر ا									
9	1,418	,	***		***						
3	586	1			<u> </u>						
	3,890										
	291										
25	312										
16	763										
***	229 338										
	1,775										
	<b>3</b> 96	3 0 14	1 10 12	1 18 5 <del>1</del>	1 0 8						
	558				•						
4	239										
80	1,081	∦ ` ∤									
11.7	283										
	153		•	]							
11	437 <b>3</b> 64										
			·								
117	11,529	***	***	***	644						
7	• 484	2 4 111	1 10 2	1 7 9%	1 0 8						
644	1,863	3 14 7j	3 2 0	2 6 1							
4+4	8	194	***	***	qq fi						
9	92	)									
	126	1 13 31	1 8 5		0 13 11}						
	3			***	- 10 115						
•••	181	ן	1								
9	352		8+4	***	iog						
142	15,642		***	P41							

PERGUNNAH
Statement showing Profits due to

1.	2.			5.		:
			REVENUE	DN IRRIGATED	ARBA,	
Number.	Name of Mouzah.	Moesun.	Boslee.	Dakur,	Minute,	Total.
		Ro As. P.	Re As. P.	Ro As. P.	Re As. P.	Re As P.
1	Simbhalki	38 8 0	165 9 0	***	***	904 1 0
3	Qootubpore	1,454 8 0	1,101 8 0	•••	6 12 0	2,562 12 0
	Total, Chuk Mozuffernugger	1,493 0 0	1,267 1 0		6 12 0	2,766 13 <b>0</b>
,	Mahmoodpore Buhsanee,	703 9 0	567 4 0	1 13 0	8 2 0	1,975 19 0
2	Bussehra Hossenpore	3,406 11 0	4,484 2 0	25 10 0	***	7,916 7 0
3	Bhoorahares	234 8 0	283 11 0	***		468 3 0
4	Phulaoda (5 Biswas)	588 4 0	181 7 0	***	26 2 0	745 13 0
8	Ditto (15 ditto)	1,626 11 0	835 19 0	p. 4 h	16 12 0	1,980 8 0
•	Tikola	394 12 0	160 3 0	43 9 0	***	527 1 0
7	Chupra	444 15 0	282 12 0	22 0 0		749 11 0
8	Chupper	2,697 2 0 878 13 0	1,415 11 0	580	960	4,127 11 0 820 8 0
•	Khowaja Nugla	775 12 0	441 6 0 490 7 0	***	***	1,266 8 0
10	Nugla Rutta Salaimpore	348 13 0	158 3 0	40 5 0	4 3 0	551 8 0
11	Khoodda	962 3 0	1,106 11 0	7 5 9	31 6 0	2,107 9 0
13	Kolsharee	860 18 0	184 11 0			545 8 0
14	Lukhmoutee	225 8 0	127 8 0	***		363 0 0
15	Muhralpore	860 13 0	478 15 0	9 8 9	19 18 0	868 12 0
16	Huraintee	488 0 0	820 6 0	23 13 0	11 8 0	788 11 0
	Total, Chuk Chuppar	13,822 3 0	10,970 1 0	177 11 0	122 4 0	25,092 8 0
1	Pursee (Chuk Goorh)	<b>2</b> 65 8 0	<b>455 0</b> 0	67 0 0	7 5 0	884 13 0
2	Buria (Chuk Buria)	2,767 4 0	2,251 0 0	233 8 9	-	5,261 19 0
1	Kalawala (Chuck Ruzkool- lapore)	4 11 0	***	***		4 11 0
1	Boocha	73 4 0	65 10 0	-	7 13 0	146 11 0
2	Shukkurpore	197 14 0	27 8 0			<b>22</b> 5 6 0
3	Nusroollahpore	***	490	•••		4 9 0
4	Noornuggur	186 1 0	45 12 0	***		250 13 0
	Total, Chuk Bhainswul Sikuadurpore	456 3 0	143 7 0		7 18 0	607 7 0
	Carried over	18,898 13 0	15,086 9 0	478 8 0	144 2 0	54,607 11 0

POOR.—(Continued.)
the operation of the Ganges Canal.

Meesun. Roslee.  Re As. P. Re As. P.  1 1 8 1 1 8 1	Dakur. Bi	hoor.	Med Rs.	-	١.			0:	n unirrigat Dakur.	Bhoor.	Total.
Re As. P. Re As. P.	Rs As. P. Rs.	As. P.	Rs	-	١.	Rosi	lee.		Dakur.	Bhoor.	Total.
}1 1 81 1 81	0		18	Meesun.  Rs. As. P.		Roslee.					
<u> </u>		11 6	18	410,	P.	Rs. A	ls. I	?.	Rs. As. P.	Rs. As. P.	Rs. As. P.
			709		0	108 7 <b>2</b> 0		- 1		 6 8 0	127 2 0 1,436 15 0
	•••		728	8	0	829	1	0		6 8 0	1,564 1 0
			274 1,327		0	406 3,214		ı	1 5 0 18 6 0	2 4 0	684 6 0 4,560 8 0
			91	7	0	167	7	0	•••		259 0 0
			209	12	0	130	1	0	•••	18 19 0	<b>3</b> 58 9 0
			634	0	0	241	7	0	•••	12 0 0	887 7 0
			126	9	0	114	14	0	30 3 0		271 10 0
	·		173	7	0	202	12	9	15 12 0	¦	891 15 0
1 2 9 1 2 9	1 5 0 0	12 0	1,051		0	1,014		- [	3 15 0	6 12 0	2,076 11 0
		•	147		0	316			•••	•••	463 11 0
				_	0	351		0			653 15 0
	•		135		0	113		0	28 14 0 5 4 0	3 0 0	281 8 0
			375 140		0	798 132	7			22 8 0	1,196 1 0 273 1 0
	·		87		0	91	6	O _l	•••		179 4 0
			140		0		5	0	6 9 0	14 4 0	504 12 O
]			168		0	229	11	0	17 l 0	8 4 0	423 12 0
			5,386	11	0	7,864	6	0	127 5 0	87 12 0	13,466 2 0
1 2 9} 1 2 9}	1 1 01 0	12 0	180	12	0	326	5	0	48 0 0	5 4 0	560 5 O
1 2 9 1 2 9	1 4 0		828	8	0	1,239	13	٩	122 8 0		2,190 13 Q
0 12 1			2	4	0	•		_ .	***		2 4 0
J			43	12	0	47	0	o		5 10 O	<b>9</b> 6 6 0
. ,			118	2	0	19	11	0	•••		187 13 0
1 1 6 1 1 0	0	10 0		•••		8	5	0			3 5 0
J			110	7	0	32	13	0	•••		143 4 0
			272	5	0	102	18	0	,,,	5 10 0	380 12 0
			7,390	0 _	0	10,362	6	0	297 13 0	105 2 0	18,164 5 0.

PERGUNNAH
Statement showing Profits due to

1.	2.	8.	9.			10.			11.		
		Difference of Revenue be-	f wells	Twe		O ACRI		OWED		VENUE	
Number.	Name of Mouzah.	tween irrigated and unirrigated a ted	Numberof colors of Canal.	Meesun.	Roslee.	Daku r.	Bhoor.	Total.	Meesun.	Roslee.	
		Re As, P.									
ı	Simbhalki	76 15 0		•••			•••	•••		•••	
2	Qootubpore	1,125 13 0	•••	•••			•••	•••		•••	
	Total, Chuk Mozuffernug ger										
1	Mahmoodpore Buhsanee	591 6 0	·								
8	Bussehra Hossenpore	3,355 15 0		•••	•••				•••		
8	Bhooraharee	209 3 0		•••				•••		•••	
4	Phulaoda (5 Biswas)	387 4 0		•••	•••		•••			•••	
8	Ditto (15 ditto)	1,092 12 0		•••	•••		•••	•••		•••	
6	Tikola	255 7 0		•••			•••	•••		•••	
7	Chupra	357 19 0		•••		•••	•••	•••		•••	
8	Chupper	2,051 0 0		•••		•••	•••	•••		•••	
9	Khowaja Nugla	356 8 0		•••		•••	•••	•••		•••	
10	Nugla Rutta	612 4 0	"	•••		•••	•••	· •••		•••	
11	Sulaimpore	270 0 0	"	•••		··· •	•••	•••		•••	
12	Khoodda	911 8 0		•••	•••	•••	•••	•••		•••	
13	Kolaharee	272 7 0 178 12 0	"	•••	•••.	•••	•••	•••		•••	
14	Lukhmoutee	178 12 0 364 0 0	"	•••	•••	•••	•••	•••		•••	
15 16	Muhraipoor	864 15 0	"	•••	•••	•••	•••	•••		•••	
10	Huraintee	304 10 0		•••			***	•••			
	Total, Chuk Chuppar	11,626 1 0									
1	Purace (Chuk Goorh)	324 8 0		•••						•••	
2	Burla (Chuk Burla)	3,060 15 0					•••			•••	
1	Kalawala (Chuk Ruzkoolla pore)										
1	Boochs	50 5 0		•••		.,.				•••	
2	Shukkurpoor	87 9 0		•••							
8	Nusroollahpore	1 4 0		•••			•••				
4	Noornugur	87 9 0		•••	··· .		•••				
	Total, Chuk Bhainswal Sikundurpore	226 11 0									
	. Carried over	16,448 6 0									
1	. Onthou over	10,200 0 0		•••	•••	•••	•••		•••		

POOR.—(Continued.)
the operation of the Ganges Canal.

15.		14.	13.			12.					
	340	ctuel prof	Difference of Revenue on	ATED		N WELI	ENUE O	REV			ERIVAI RRIGAT
Remarks.	al.	Actual prof due to Car	area irri- gated by wells.	Total.	Bhoor.	Dakur.	Roslee.	Meesun.	Total.	Bhoor.	Dakur.
	P.	Rs. As.						•			
	0								•••		
	0	1,125 13	•••	•••		•••			•••		
	0	1,202 12	•••								
	0	591 6									
	0	8,855 15				•••					
	0	209 3				•••			•••		
	0	387 4									•••
	0	1,092 12				•••			•••		
	0	255 7			•••	•••					
	0	857 12	•••			•••		٠	•••		
	0	2,051 0	•••			•••			•••		
	0	<b>356</b> 8	•••		•••	•••			•••		
	0	612 4	•••		•••				•••		•
	0	270 0	•••		•••				•••		
	0	911 8	•••			•••			•••	•••	
	0	272 7							•••		
	0	178 12							•••		
	0	364 0	·		•••	•••					
	0	364 15	•••	•••		•••		. •••	•••		
	0	11,626 1	•••		•••				<del></del>		
	_						<del></del>				
	0	824 8	•••		•••	•••			•••		
	0	3,060 15				•••			•••		
	0	2 7				•••			•••		•••
	0	50 5	•••						•••		
	0	87 9	•••			•••			•••		
-	0	1 4				•••					
	0	87 9		•••	•••	•••		•••	•••		
	0	226 11	***				•••				
	_	16,448 6		•••	•••						

PERGUNNAH
Statement showing Profits due to

1.		2.				3		
					Area ir	RIGATED BY	CANAL	•
No.	Name o	of Moussh.		Meesun.	Roslee.	Dakur.	Bhoor.	Total.
		Brought over	•••	6,369	8,891	240	142	15,642
1	Bhainsurharee	•••		118	291	4	26	439
2	Bhumyaoree	•••	•••	20	144	1		165
3	Bhojaharee	•••	•••	120	235	٠	11	366
4	Poor	•••	•••	311	336	8	26	676
5	Taijulhara	•••	•••	415	522	17	83	977
6	Tajpore	•••	•••	187	233	8	6	434
7	Raipore Jhoja		•••	13	185	15	9	222
8	Simurtee		•••	107	241	8		351
9	Sooaharee		•••		258	•••		258
10	Shahjehanpore	•••	•••	49	87	•••	2	138
11	Abdoollapore	•••	•••		153	•••		153
12	Qasumpore	•••	•••	92	432		1	525
13	Kailanpore Jelalp	970o	•••	120	307			427
14	Khankaree	•••	•••	571	720	4		1,295
15	Khindurya	•••	•••	127	299	80	8	464
Į6	Goomaotee	•••	•••	128	183	1		302
17	Mandla	•••	•••	104	91	3		198
18	Nohpore	•••	•••		207			207 )
	Total,	Chuk Poor	•••	2,472	4,924	89	112	7,597
1	Buhlalpore			36	168			204 )
2	Chuppurpore				49			49
3	Dhumat Bangar			116	268		43	427
4	Doodhlee	, <b></b>	•••	84	211			295
5	Tooghluqpore	•••	•••	240	436	5		681
6	Kumhara		•••	176	182	15		373
7	Godhna Godhnee		•••	235	312		1	548
8	Mirzapore Shahj	ehanpore			19			19
9	Nugla Mehrdad	***		36	153	1		190
	Total,	Chuk Birhmpor	re	923	1,798	21	44	2,786
		GRAND TOTAL	•••	9,764	15,613	350	298	26,025

POOR.—(Continued.)
the operation of the Ganges Canal.

	4.			5.											
REVENUE	RATE PE	R IRRIGAT	ED ACRE.		REVENUE OF	REIGATED A	AREA.								
Meesun.	Roslee.	Dakur.	Bhoor.	Meesun.	Roslee. Dakur.		Bhoor.	Total.							
Rs. As. P.	Rs. As. P.	Rs, As, P.	Rs. As.P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.							
•••		 		18,898 13 0	15,086 9 0	478 3 0	144 2 0	34,607 11 (							
				370 4 0	456 10 0	6 10 0	27 3 O	860 11 0							
				62 12 '0	225 15 O	1 10 0		290 5 0							
				376 8 0	<b>36</b> 8 12 0		11 8 0	756 12 0							
				975 13 0	527 4 0	4 15 0	27 3 0	1,535 3 0							
				1,302 2 0	819 10 0	28 1 0	24 1 0	2,173 14 0							
				586 12 0	<b>36</b> 5 10 0	13 3 0	6 4 0	971 13 0							
				40 13 0	290 4 0	24 13 0	960	365 4 0							
				335 12 0	378 3 0	4 15 0		718 14 0							
3 2 21					404 14 0	•••		404 14 0							
9 A 43	1 9 12	1 10 94	1 0 84	153 12 0	136 8 o	•••	2 1 0	292 5 0							
			•		240 2 0	•••		240 2 0							
				288 11 0	677 15 0		1 1 0	967 11 (							
	}			876 8 0	481 12 0			858 4 (							
		}		1,791 10 0	1,129 15 0	6 10 0	i	2,928 3 (							
				398 8 0	469 4 0	49 9 0		925 11 (							
				370 4 0	287 3 0	1 10 0		659 1 (							
				326 5 0	142 13 0			474 1 (							
					324 14 0			324 14							
				7,756 6 0	7,727 8 0	146 15 0	117 1 0	15,747 14 (							
				94 2 0	283 0 0			377 5							
					82 9 0	•••		82 9							
				303 6 0	451 12 0	•••	<b>32 13</b> 0	787 15							
				219 11 0	355 10 0			575 5							
9 10	1 10 113	1 14 10}	0 12 3	627 11 0	734 14 0	9 10 0		1,372 8							
				460 5 0	306 12 0	28 12 0		795 13							
				614 9 0	525 14 0	•••	0 12 0	1,141 8							
					32 0 0			32 0							
				94 2 0	257 14. 0	1 15 0		353 15							
	•••			2,413 14 0	3,030 8 0	40 5 0	83 9 0	5,518 4							
•••	•••	•••	•••	29,069 1 0	25,844 9 0	665 7 0	294 12 0	55,873 13							

PERGUNI Statement showing Profits due

		2.								<u> </u>
1.				- -		_				
				_	REVEN	101	RATE PER	UNIRRIGATI	ED ACRE.	
	Name o	f Monzal	h.	,	decaud.		Rostee.	Dakur.	Bhoor.	Ме
		Brought (	yer .	Re	i. An. 1	P.	Rs. As. P.	Rs. As. P.	Ra. Aa, P.	Ra 7,59
	urharec	•••		- h						18:
	'aoree	***	***	-		۱,				2:
	AP60	***	***	••						
	***	111		••						
	IATA	***	•••	••						
	9 ***	101	*** 4	••						
	e Jhoja	***	•••	••						
	ee	104		••						
	£66	***		**						
	hanpore	***	•••	**						
	lapore	***	***	**						
	Engl	***	***	••						
	pore Jelaly	ore		**						
	aree	***	***	*1						
	irja.	***	,	••						
	otee	***								
	la	***	***	••						
	18 340	***		••						
	Tota	l, Chuk I	oor .	••						
	pore		*** **							
	trpore									
	t Bangar									
	•									
	adbose									
	ra									
	, Godhnes									
			***							
	Mehrdad	_								
	lotal, Chul	k Birhmp	ore							
	<b>G</b> r	PARD TO	MAL							

POOR.—(Continued.)

operation of the Ganges Canal.

	7.			N N	9.
REVENUE ON UNI	BRIGATED AREA.			Difference of Reve-	Number of
Roslee.	Dakur.	Bhoor.	Total.	gated and unirri- gated rates.	wells closed by Canal.
Ra. As. P.	Re. As. P.	Rs. As. P.	Rs. As. P.	Ba. As. P.	
10,362 6 0	297 13 0	105 2 0	18,164 5 0	16,443 6 0	504
827 6 0	4 12 0	19 8 0	484 6 0	376 5 0	1+4
162 0 0	1 8 0	•••	185 '11 0	104 10 0	*
264 6 0	***	8 4 0	407 10 0	349 2 0	,,
878 0 0	3 9 0	0 8 91	750 15 · 0	784 4 0	
887 4 0	20 3 0	17 4 0	1,091 9 0	1,082 5 0	
262 0 0	980	4 8 0	486 5 0	485 7 0	444
208 2 0	17 18 0	6 12 0	247 5 0	117 16 0	
271 2 0	8 9 0	gea.	895 1 0	823 13 0	***
290 6 0	***	444	290 4 0	114 10 0	-
97 14 0	***	1 8 0	154 8 0	187 18 0	
172 2 0	0.00	***	172 2 0	68 0 0	
486 0 0	***	0 12 0	590 4 0	877 7 0	***
345 6 0	*10	***	480 6 0	877 14 0	***
810 0 0	4 19 0	4+4	1,457 2 0	1,471 1 0	***
386 6 0	<b>35</b> 10 0	6 0 0	520 14 0	404 13 0	144
205 14 0	1 8 0	***	839 18 0	819 4 0	
109 6 0	390	1+4	222 15 0	951 2 0	***
282 14 0	***	***	239 14 0	92 0 0	***
5,589 6 0	105 11 0	84 0 0	8,510 I 0	7,237 18 0	4+4
203 10 0				190 1 0	
59 6 O	714		247 4 0 59 6 0	. 180 1 0 28 8 0	
324 18 0	1+й	22 5 0	487 11 0	300 4 0	4+1
255 11 0	640		857 8 0	217 13 0	
528 6 0	4 11 0	ted	823 15 O	548 4 0	***
220 9 0	13 11 0	***	447 9 0	348 4 0	
378 2 0		0 9 0	663 8 0	477 11 0	, , , , , , , , , , , , , , , , , , ,
23 0 0	***		23 0 0	900	,
185 7 0	0 15 0	210	260 0 0	123 15 0	693
	- 10 0	278	, 255 0		
2,179 0 6	19 5 0	<b>32 14 0</b>	3,389 13 0	2,178 7 0	
18,080 12 0	422 18 0	212 0 0	30,014 3 0	25,859 10 0	219

PERGUNNAH

Statement showing Profits due to

1,	1.					10.			11.			
				Twen		ACRES	ALLOW:	<b>MD TQ</b>	Ravas	MY 181	RIVARIA	Finome If,
No.	Name of Mou	sah.	_	Meesto.	Roslee.	Dakur.	Bhoor.	Total.	Meenn,	Bosles.	Dakter.	Bhoor.
	Brought	Over,			541	•••		***			•••	
1	Bhainaurharee	***	***				***				***	
2	Bhumyseree	***	***			***						
8	Bhojsharee	•••	+44								+-4	***
4	Poor	•••	•••					***	***			***
5	Taijulhara	***	***	***				***		***		<b></b>
6	Tajpore	***	**#		***	***		***		***		***
7	Raipore Jhoja	***	•••		-		***		***	***		701
8	Simurtee	<b></b>	••#						***			•••
9	Soonhares	144	***	***				***		***	***	
10	Shahjehanpere	***	**1		344					***	***	***
11	Abdoollapore	***	***	100	•••	***	101	***	***	***		
12	Qasumpore	***	• 1 •	144	•••		1**	•••	. ***	•••		***
13	Kailanpore Jeialpere Khankarse		4 64	***	•••	-	***	'''				***
14		140	***	-**	***		***	***	'''	***	***	***
15		***	**1	***	***	***	***	***	***	***	•••	***
16 17	36 33	***	***	-**	***	***	***	***	***	***		***
18	Nohpore	***	•••	***	***	***		***	**1	***	***	***
16	Area pore	***	•••	***	***	**1		***	***		***	'''
	Total, Chuk	Poor	•••		,	***	***	909	***	***	***	140
1	Buhlalpore	1+8	***		***	•••	***					
2	Chappurpore	***	•••		***	***			***			***
8	Dhumat Bangar	***	•••							***		
4	Doodhlee	***	***		***						***	
5	Tooghluqpore	***	***						***		***	
6	Kumhara	***	***		***	***	,		***			
7	Godhna Godhnes	***	•••		***	***			i 	***		
8	Mirsapore Shahjehan	pore .	**1									
9	Nugla Mehrdad	***	***	•••	•••	***	***	***	•"			***
	Total, Chuk Birhi	npore	**1	-			,,,				***	
	. Свато Т	OTAL,	•••			***		•••		***		_

POOR.—(Concluded.)

### the operation of the Ganges Canal.

-				14.			13.	14	<b>.</b>		15.
-			PENUR (			ATED	of Ke-			-	
-	Total.	Meesun.	Bosice.	Dakur.	Вһоот.	Total	Difference of Re- venue on areairri- gated by wells.	Actor fits di Canal,	fits due to Canal.		Remarks.
_	846			-			***	Rs. / 16,443		P.	
-								376	5	0	This pergunnah is devoid of either masonry or kutchs wells. The soil is so
	***				***			104	10	0	
	***	445						349	2	0	
								784	4	0	
	***			***				1,082	5	0	
	•••			.,,		ļ		485	7	0	
	***					,.,		117	15	0	4
	•••							323	13	O	
	•••							114	10	9	and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra
	•••				***		***	137	18	0	
	•••		,				4+1	68	0	0	4 1 1 4 4 5
	•••					***	***	877	7	0	1 11 / 4
	•••					***	***	877	14	0	
	***				***	***	244	1,471	1	0	. X
	•••		***		***	***	***	404	13	0	of the soil; and the entire absence of well irrigation of course makes the actual
	***						***	819	4	0	profits due to the canal mount up to a large sum. There is no avoiding this,
	***		104					261	2	0	I de Commune out le determine on
	***		***					92	0	0	canal, this difference must be deducted from the pergunnah jumma. In obedience
											to the minute recorded by Mr. R. Money, Senior Member, Board of Revenue, North-
-	***						494	7,237	18	0	Western Provinces, dated 25th March, 1865, I have had the pergunnah again examined, but have found no reason to alter the views I have previously expressed
_				ŀ							on this subject.
	*40		***	***	-			F20	1		
	***				***		***	23	8	0	•
	***		704		•		100	800	4	0	
	440		***	***	•••		,	217			
	***		***				***	548	4	0	
	***				***	***	444	348	4	0	
	***						) ···	477		0	
	***						4,64	,,,,	0	0	
	***			***		***	"	198	10	0	
-	***		,					2,178	7	0	
_							***	25,859	10	0	Rs. 12,290 allowed.

## Abstract of Statement A.

B.

No.	Pergumah.	Name of Mouzah.	Area irrigated by Canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profile due to Canaf.	Remarka.
1		Simbhalkee  Qootubpore	115	Ra. 77 1,126	Ra	Rs. 77 1,126	No deduction.  Ra. 600 allowed.
		Total, Chuk Mozuffer- nugger	1,418	1,203	•••	1,208	
		Muhmoodpore Buhaanee,	585	591		591	Rs. 100 allowed
2		Bussehrs Hossenpore	3,890	3,856	***	3,356	Rs. 1,800 ditto.
3		Bhoraharee	221	209		209	Ra 100 ditto.
4		Phulaoda (5 Biawaha)	815	387		\$87	Rs. 150 ditto.
5		Ditto (15 ditto)	763 229	1,098		1,093	Rs. 700 ditto.
6		Chupra	333	256 858	***	358	Ru. 100 ditto.
8		Chuppar	1,775	2,051	412	2,051	Rs. 200 ditto.
9	.	Khowaja Nugla	396	356		356	Ra. 200 ditto.
10		Nugla Rutta	558	612		612	Ra. 310 ditto.
$\mathbf{n}$		Salaimpore	239	270		270	Ra. 100 ditto.
12	4	Khoodda	1,031	912	***	912	Rs. 900 ditto.
13	Poor.	Kolaharee	233	272	***	272	Ra. 150 ditto.
14		Lukhnoutee	100	174	•••	174	Rs. 40 ditto.
15		Muhraipore	437	864	***	364	Rs. 320 ditto.
175		Huraintee	364	365	•••	365	Re. 210 ditto.
		Total, Chuk Chuppar	11,522	11,626	**1	11,626	
1		Purace (Chuk Goorh,)	894	325		825	B 300 allowed.
1		Burla (Chuk Burlah,)	1,863	3,061	711	8,061	Rs. 1,000 ditto.
1		Kalawala Chuk Ruz- kooliapore	3	2	***	9	No deduction necessary.
1		Boocha	92	no.	908	50	Rs. 50 allowed.
2		Shukkurpore	126	68	•••	88	Rs. 90 ditto.
2		Nusroollapore	8	1	***	1	No deduction necessary.
4		Noornuggur	181	ш	***	88	Rs. 50 allowed.
		Total, Chuk Bhainswal Sikundurpore	362	227	444	197	
		Carried over	15,642	15,444	V4.1	16,444	,

B.

1							
- 1				Ba.	Rs.	Ra.	
		Brought over	15,642	16,444	***	16,444	
1 2	ſ	Bhainsurharee Bhumyaoree	4/10 165	376 105	840 ·	876 105	Rs. 200 allowed. No deduction necessary; assessment independent of
3 4 5 6 7 8 9 10 11 12 13 14 16 16 17 18	Poor (Concluded.)	Bhojaharee Poor Taijulhara Tajpore Raipore Jhoja Simurtee Sooaharee Shahjahanpore Abdoollapore Kailunpore Jelalpore Khankharee Khindurya Goomaotee Mandla Nohpore	366 676 977 434 922 351 258 138 153 535 427 1,295 464 303 198 207	349 784 1,063 486 118 324 115 111 68 377 378 1,471 405 819 251 92	000 000 000 000 000 000 000 000 000 00	784 1,082 400 118 324 116 138 68 377 378 1,471 405 319 251 92	canal.  Rs. 100 only allowed.  Rs. 500 allowed.  Rs. 500 allowed.  Rs. 400 ditto.  Rs. 300 ditto.  Rs. 100 ditto.  No deduction necessary;  assessment independent of canal.  Ditto ditto.  No deduction necessary.  Rs. 100 allowed.  Rs. 200 ditto.  Rs. 650 ditto.  No deduction necessary.  Rs. 160 allowed.  Rs. 150 ditto.  No deduction necessary;  Rs. 150 ditto.  No deduction necessary;  assessment independent of canal.
	Poor.	Total, Chuk Poor	7,597	7,238	***	7,238	Cester
1		Buhlalpore Chuppurpore					Rs. 50 only allowed. No deduction necessary; assessment independent of
3 4 5 6 7 8		Dhumat Bangur Dhoodles Tooghluqpore Kumhara Godhna Godhnee Mirzapore Shahjehan- pore Nugla Mehrdad					canal. Rs. 100 allowed. Rs. 500 ditto. Rs. 180 ditto. Rs. 180 ditto. Rs. 300 ditto. No deduction necessary: assessment independent of canal. Rs. 80 allowed for canal pre- fits.
		Total, Chuk Birhmpore,	2,786	2,178		2,178	1
		GRAND TOTAL	26,025	25,860		25,860	*Rs. 12,290 allowed as pro- fits due to canal.

The Cancongoe of Moozuffernuggur has been deputed for the second time to ascertain if there are any wells in this pergunnah: he reports only one in Poor. The depth of water in this pergunnah is of an average between 30 to 40 feet from the surface. It varies of course, but never below 30 feet—frequently above that.

S. N. MARTIN,

Collector.

^{*}I have made no calculation of the amount of land that would be thrown out of cultivation were the canal to be stopped. In very many places the cultivation without canal water would fall off immensely; but I have no means of ascertaining the amount, even approximately, consequently have laft this out altogether. This is one of the many difficulties of making an assessment independent of canal.

PERGUNNAH
Statement showing Profits due to

1.	2.					3,				4.
				Am	A TERI	BATED 1	BY CAN	AL.	Reven	DE RATE PRI
0.	Name of Mou	rah.								
				Мении	Roslee.	Dakur.	Bhoor.	Total.	Meesun.	Roslee.
	-								Ra. As. P.	Ra, As, F
1	Ajeetpoor		***	7	105	4	***	116	h	
2	Akburpoor	***	***	206	135	1	2	844	![	
8	Islamabad Bahpoor Azeezpoor	4.9-14	144	71	85	1	***	157	<b> </b>	
ŝ	Burhaco	***	#+A	38 27	66	26	***	181	[	
6	Bowara Khoord	144	***	133	179	4	2	97 314	1	
7	Ditto Kullan	***	***	77	257	***		334		
8	Boparah Hosseinpoor		***	60	36	445	***	96	ll	
9	Bangee	*4*	***	181	860	20	***	561		
1	Bhensee Bhoop Kharee	***	***	535	4A¥ 271	18	4 7	1,004		•
2	Bulhara	***	***	96	77	16		390		
3	Boonts	***	***	61	42	***	***	83 103		
4	Peepulhara Yousufpoor			101	808		***	410		
5	Tajpoor	464	5+1	137	139	l il	441	277	H	
6	Tiganee	***	***	155	63	***	***	218	11	
7	Behut Titora	***	***	232	000	1++	****	159	11	
9	Johra		411	220 75	206 131	***	1	429	H	
Ď	Juhangeerpoor	***	***	100	139	"1	***	206 206	H	
11	Chundseena	***	***	67	140	*	***	207		
12	Khanjebanpoor	•••	841	46	75		698	121		
18	Khanoopoor Doodaharee	***	944	8	7	2	1117	19	1	
5	Doodblee	***	991	197	324 102	***	8	K 200		
15	Dahoor	104	***	59 135	158		***	160	<b> </b>	
7	Raipore Nuglee	447	***	75	204	5	***	298 279		
D.	Roostumpoor	101	***	45	107	***	100	152	l i	
19	Rokunpoor	***	***	71	86	3	400	158		
10	Sutbaree Surdhun	194	***	26	40	449	***	- 80		
)1  2	Surai Russoolpoor	***	844	84 56	98 74	449	***	165	2 8	
33	Sikrara	***	***	44	162	***	***	130 206	1	1 12
4	Sikunderpoor Kulan	***	200	3	39	410	504	300 41		
16	Sonta Ubdoolla Nuggur	***	***	176	57.5	***	7	489		
16	Shahpoor Sherepoor	***	***	38	82	8	***	199	11	
18	Shekhoopoora	***	544	90 60	478 61	14	3	584		
19	Umberpoor	***	***	117		***	***	121 171		
0	Fuheempoor Kulan	***	***	84	230	1112	***	316		
1	Fuhermpoor Khoord	***	***	12	2	, ⁻	644	16		
3	Kukrala	***		175	11	100_	144	24		
4	Khatoulee	***	5+4	50 143	20 840	5	3	85	1	
5	Kharee Tugan	***	***	67	76	7	*	493 143		
6	Kharee Rungran	110	***	100	III)	12	444	205		
7	Gaonree			84	240	50	094	324	II.	
u	Gungdhara, alias Moozo	olla l	inggur,	6	1/61	2	***	144	•	
0	Gungdhares, slice Goon Ladpoor	_	***	214	135	15	***	398	П	
ĭ	Noona	**1		207	167	11	***	410	П	
9	Lisora Comurpour	***	9++	85 152	319	7 8		413 240	H	

## KHATOWLEE.

the operation of the Ganges Canal.

# PERGUNNAH Statement showing Profits due to the

1.	2.		6.				
		REVENUE	RATE FEE	UNIRRIGATE	D ACRE.		REVENUE ON :
No.	Name of Mouzah.	Meesun.	Roslee.	Dakur.	Bhoor.	Meesun.	Rosles.
		Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.
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KHATOWLEE.

operation of the Ganges Canal.—(Continued.)

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Total. Messun. Restee. Dakur. Bhoor. Total.  Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. As. P. Ra. Ra. Ra. P. Ra. Ra. Ra. Ra. Ra. Ra. Ra. Ra. Ra. Ra						
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# PERGUNNAH Statement showing profits due to the

			<u> </u>						13.	14,
		r	lame (	of Mou	esh.				Difference of Revenue on area irrigated by wells.	Actual profit due to canal.
									Fe, As. P.	Ra. As. P.
Ajestpoor	***		***	***	***	***	***	***	14 9 0	64 7 0
Akburpoor		***	•••	***	•••	***	***	•••	49 3 0	330 8 0 156 7 U
Bahpoor Az		***	•••	***	•••	***	***	***	***	135 2 0
Burhsoo	***	•••	***		•••	***		***	***	81 14 0
Bowara Kho Ditto Kull		•••	***	***	***	-+1	***	***	***	305 5 0 275 10 0
Boparah Ho		or Or	***	***		***	***	***	***	107 15 0
Bangee	_	***	***		•••	•••	***	***	98 1 0	395 3 0
Bhennee Bhoop Khar		***	***	441	***	***	***	***	346 9 0	706 13 0
Bulhara			***	***	***	***	***	***	108 13 0	58 9 0
Boonta	***			***	***		***	•••	***	113 3 0
Pecpulhara 'Tajpoor	_		***	***	***	***	***	***	55 1 0	267 11 0 171 3 0
Tiganee		***	***	***	***	***	***	***	112 7 0 52 2 0	207 \$ 0
Behut			***	***	***	***	•••	***	54 6 0	815 5 0
Titora Johra		•••	•••	***	***	***	***	***	68 19: 0	377 5 0 190 14 0
Juhangeerpo		1-1	***	***	***	***	***	***	19 10 0	163 14 0
Chundseena	***	***	•••	***	713	***	***	***	17 10 0	185 6 0
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Khanoopoor Doodaharee	***	•••	***	***	***	***	***	***		9 4 0
Doodhlee			***	***	100	***	•••	***	***	148 0 0
Dahoor		***	***	***	***	***	***	***	109 15 0	181 7 0
Raipore Nug Roostumpoo	_	•-•	***	***	***	***	***	***	18 18 0	219 9 0 133 1 0
Rokunpoor		•••	***	***	***	***	***	***	21 14 0	133 13 0
Sutharee		***		•••	***		***	***		62 11 0
Surdhun Surai Rumoo	1	***	***	***	***	***	***	***	91 14 0   91 2 0	160 8 ( 105 14 (
Sikrara	-	***	***	/		***	***	***	85 8 0	131 14 0
Sikunderpoo					***	***	***	***		28 4 0
Sonta Ubdoo Shahpoor	_	gur 	***	***	***	***	***	***	19 10 0	432 12 ( 87 13 (
Sherepoor				•••	***	***	***	***	16 2 0	426 2 (
Shekhoopoor		***	•••	***	***	***		***	45 5 0	78 12 (
Umberpoor Fuheempoor	Kulan	***	***	***	***	***	***	***	18"2 0	250 S (
Fuheempoor				***	***		***	***		21 0 (
Kukrala Khatoula		***	***	***	***		•••	***		25 8 ( 72 9 (
Khatoulee			***	***	***	***	***	***	26 0 0   38 0 0	72 9 ( 388 5 (
Kharee Tuge	n.m.	***	***	***	***	***	***	***	***	143 12 (
Kharee Rung Gaonree	_	4+4	***	***	***	***	•••	***	178 1 0	56 14 ( 215 0 (
Gungdhara,	alias Me	 oozoolla	Nuge	or	***	***	***	***	4+1	215 O ( 95 5 (
Gungdharee,			***	***	***	•••	***		297 5 0	117 I (
Ladpoor Noona		•••	***	104	***	***	***	***	29 0 0	379 10 ( 330 4 (
Lisora Comu	rpoor	***	***	***	***	***	***	***		267 15
Moobarikpoo		***	***	***	***	***	***	***	22 lt 0	174 6 0
Mutharee Mujahudpoo		***	***	***	***	***	***	***	27 3 0	249 10 ( 199 12 (
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Munsoorpoor Humeodpoor		cir	144	411	***	***	*** '	***	179 10 0	524 14 ( 180 8 (
Munowurpoo	e -	410	***	***	***	***	***	***	***	102 13 (
Munowurpoo				***	***	***	***	***		64 7 (
Naola Yaheeapoor		•••	***	***	***	***	***	***	***	722 4 0 201 2 0
			3	lotal .	•••			***	2,131 5 0	18,414 9

### KHATOWLEE.

· operation of the Ganges Canal.—(Concluded.)

	15.							
	Remari	ks.	•			,		
Taking an average, say of 22 acres to each well, gives in wells	4,300 1,885 4,300 16,885 19,279 accepted to fits due to cancimate after tot probable hwar reviews	mes.  " inclu " " cres × 18 " " cres × 18 " " " al " al allowing le wells, v	ding 3	Acres. 21,085	a wells in Rs. As.	existence.  P. Rs. 6 = 36,239  ==18,776 ==55,016 66,311 11,294 13,415 6,943	As. 13	P. 6

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# Abstract of Statement A. B.

No.	Pergunnah.	Name of Mousah.		Acre irrigated by Canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
1		Ajeetpoor		116	Rs. 79	Rs. 15	Rs. 64	Rs. 60 allowed for Canal profits.
2		Akburpoor		344	380	49	<b>3</b> 31	Rs. 200 ditto.
3		Islamabad		157	155		155	Rs. 100 ditto.
4		Bahpoor Azeezpoor		181	185		135	Ra. 70 ditto.
5	1	Burhsoo		97	82		82	Rs. 80 ditto.
6		Bowara Khoord		314	305		305	Rs. 200 ditto.
7		Ditto Kullan		334	276		276	Rs. 100 ditto.
8		Boparah Hosseinpoor	[	96	108		108	Rs. 100 ditto.
9		Bangee		561	493	98	895	Rs. 200 ditto.
10		Bhensee		1,004	1,054	347	707	Rs. 400 ditto.
11		Bhoop Kharee		390	320	109	211	Rs. 150 ditto,
12		Bulhara		83	59		59	Rs. 60 ditto.
18		Boonta		108	118		113	Rs. 80 ditto.
14		Peepulhara Yousufpoor		410	843	55	288	Rs. 150 ditto.
15		Tajpoor		277	283	112	171	Rs. 130 ditto.
16		Tiganee		218	259	52	207	Rs. 120 ditto.
17		Behut		298	369	54	815	Rs. 100 ditto.
18	انه	Titora		429	446	69	877	Rs. 200 ditto.
19	owle	Johra		206	191		191	Rs. 110 ditto.
20	Khatowlee.	Juhangeerpoor		206	184	20	164	Rs. 90 ditto.
21		Chundseens		207	185	•••	185	No deduction necessary; assessment independent of Canal.
22		Khanjehanpoor		121	114	•••	114	Rs. 70 allowed for Canal profits.
28 /		Khanoopoor		12	9	•••	9	No deduction necessary; irrigation trifling.
24		Doodaharee		529	494	•••	494	Rs. 200 allowed for Canal profits.
25		Doodhlee		160	148		148	Rs. 50 ditto.
26				293	290	109	181	Rs. 100 ditto.
27		Raipore Nuglee	••	279	239	19	220	Rs. 150 ditto.
28		Roostumpoor		152	133	•••	188	Rs. 70 ditto.
29		-		158	156	22	134	Rs. 90 ditto.
30		Suthares	•••	66	63		63	No deduction has been thought necessary on account of proximity of springs,
31		Surdhun		182	182	22	160	Rs. 100 allowed for Canal profits.
32		Surai Russoolpoor		130	127	21	106	Rs. 100 ditto.
38		Sikrara		206	167	35	132	Rs. 95 ditto.
34	Į	Sikunderpoor Kulan		41	28		28	Item so small, no deduc- tion necessary.
		Carried forward		8,360	7,965	1,208	6,757	

В.

No.	Pergunnah.	Name of Mouzah.	Area irrigated by Canal.	Difference of Reven frigated and initiated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
		Brought over	8,360	Rs. 7,965	Rs. 1,208	Rs. 6,757	
35	ſ	Sonta Ubdoolla Nugger	459	483		433	Rs. 250 allowed for Canal profits.
36		Shahpoor	123	108	20	88	Rs. 50 ditto.
37		Sherepoor	584	442	16	426	Rs. 200 ditto.
38		Shekhoopoora	121	124	45	79	Rs. 55 ditto.
39	}	Umberpore	171	177		177	No deduction necessary; assessment independent of Canal.
40		Fuheempoor Kulan	316	268	18	250	Rs. 175 allowed for Canal profits.
41	}	Fuheempoor Khoord	16	21		21	No deduction necessary; assessment independent of Canal.
42	Ì	Kukrala	24	26	•••	26	No deduction necessary; ditto.
43		Khatoula	85	99	26	73	Rs. 45 allowed for Canal profits.
44	ŀ	Khatoulee	493	426	88	388	Rs. 213 ditto.
45	ļ	Kharee Tugan	143	144		144	Ra. 100 ditto.
46	(F)	Kharee Rungran	205	229	172	57	Ra. 60 ditto.
47	mcha	Gaonree	324	215		215	Rs. 100 ditto.
48	Khatowles.—(Concluded.)	Gungdhara, alias Mozoolla Nugger.	144	97		97	No deduction necessary; assessment independent of Canal.
49	w le	Gungdhara, alias Goonree	398	414	297	117	Rs. 100 allowed for Canal profits,
50	Pate	Ladpoor	385	408	23	880	Rs. 200 ditto.
<b>6</b> 1	-	Noona	418	830		830	Rs. 250 ditto.
58		Lisora Comurpoor	240	268		268	Rs. 150 ditto.
58		Moobarikpore	191	197	23	174	Rs. 60 ditto.
54		Mutharee	225	277	27	250	Rs. 60 ditto.
55		Mujahudpoor	209	222	22	200	Rs. 100 ditto.
56		Muhee-ood-deenpore	161	157		157	Rs. 100 ditto.
57	-	Murh Kureempoor	499	531	23	508	Rs. 100 ditto.
58		Munsoorpoor	890	698	173	525	Rs. 350 ditto.
59	- 1	Humeedpoor Mokpoor	232	181		181	Rs. 100 ditto.
60		Munowurpoor	134	103	•••	103	No deduction necessary; assessment independent of Canal.
61	- }	Munowurpoor Muzra Naola,	95	64		64	No deduction ditto.
62		Naola	823	722		722	Rs. 300 allowed for Canal profits.
68	Ĺ	Yaheeapoor	169	201		201	Rs. 100 ditto.
		Total	16,632	15,546	2,131 	13,415	Rs. 6,943, Canal profits.

The average depth of water is 17 to 18 feet; in many places kutcha wells can be dug; note has been taken of this natural capability when assessing each village; there are other villages, again, where clay is entirely absent; and, owing to sandy substrata, kutcha wells cannot possibly be dug. I have closely examined each village; wherever Mr. Grant's assessments appeared below half assets, and the village had ordinary natural capability for digging wells, very little allowance has been made for canal profits. The jumma of this pergunnah is Rs. 66,311; canal profits only Rs. 6,943. This is owing to the facility of well irrigation.

PERGUNNAH
Statement shewing Profits due to the

1.	2.					8.		
					Area irrig	ATED BY C	anal.	
Namber.	Name of Mouzah	•		Meesun.	Roslee.	Dakur.	Bhoor.	Total.
	,				`			
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14	Burla Jut  Bulwa Puttee Mosulmanan Ditto Puttee Hindwan Bamnolee Tajpoor, alias Sumbhalka Titoulee Jhal Puttee Guthwala Ditto Puttee Khurb Seekundra Sehnta Puttee Goomanee Shamlee Puttee Ghasee Ram Ditto Puttee Bhugwan Singh Ditto Puttee Jowahir Singh Ditto Puttee Mehuldarpoora Shekhoopoor	•••		23 145 113 74 131 128 51  64  151 169 72 43	167 282 123 61 179 507 146 12 266 30 168 158 217 174	43 8 8 8 8 15 5 12	    	190 427 236 178 310 643 202 12 338 30 322 342 294 217 102
16 17 18 19 20 21 22	Kusserwa Khoord Kusserwa Kullan Kheree Kurmoon Gurh Shaishtpoor Gogurpoor Leloun Moondet			29 228 217 43 32 146 42	78 156 454 36 121 569 162	12 30 148 29  22 63	 10   1	119 424 819 108 153 738 267
	Total, Chuk	Shamlee		1,931	4,126	401	13	6,471
1 2 3 4 5 6 7 8 9	Jundheree Dhunnena Sulawur Kurroree Kunnookhera Gohurnee			15 452 2 21 196 91 126 177 21	158 599 130 96 383 202 584 248 138	88 739 88 27 124 83 80 329 8		176 1,790 220 144 703 376 790 754 167
	Total, Chuk Bl	nainswal		1,112	2,569	1,509		5,190
1 2 3 4 5 6 7 8	Babree Mehal Baluk Ram Ditto Mehal Nuwab Bunut Puttee Ramzan Ali Ditto Puttee Sowaee Singh Ditto Puttee Seelaput Ditto Puttee Mohur Singh Bunhera Sonta			15  15 45 14 16 3 3 308	143 3 149 124 34 64 47 413	9  8 17 12 15 1 1 . 99		167 3 179 186 60 95 51 820
	Total, Chuk	Koodana	•••	416	977	161		1,554
1 2 3 4 5 6 7 8	Bootrara Puttee Afghanan Ditto Puttee Jâtân Khanpoor Sikka Kyrce Mehdoodpoor Afghanan Ditto Jâtân Muhabutpoor Total, Chuk Bun	    		34 29 210 54   26	83 63 185 447 3 91 48 38	18 26 27 32  80 5 13		135 118 422 533 3 51 53 77
!	Total, Chuk Bun	ect unerg	•••	303	000	101	<u>:</u> _	
	GRAN	D TOTAL	•••	8,812	3,560	2,222	13	14,607

SHAMLEE.

operation of the Eastern Jumna Canal. .

S		4	i.				5.		
Ra A. P.   Ra A. P.   Ra A. A. P.   Ra A. A. P.   Ra A. A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A.   P.   Ra P.   Ra P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra A. P.   Ra P.   Ra P.   Ra P.   Ra P.   Ra P.   Ra P.   Ra P.   Ra P.   Ra P.   Ra P.   Ra P.   Ra P	REVENUE	RATE PI	R IRRIGA	TED ACRE.		REVENUE	ON IRRIGATED	AREA.	
S	Meesun.	Roslee.	Dakur.	Bhoor.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
1	Rs. A. P.	Rs.A.P.	Rs.A.P.	Rs.As.P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs.As.P.	Rs. As. P.
\begin{array}{c c c c c c c c c c c c c c c c c c c	3 9 6	3 0 0	1 14 112	1 0 34	521 2 0 406 2 0 265 15 0 470 13 0 460 0 0 183 4 0 230 0 0 542 10 0 607 5 0 258 12 0 107 13 0 107 13 0 104 4 0 819 6 0 779 14 0 115 0 0 524 11 0	846 0 0 369 0 0 0 183 0 0 0 537 0 0 0 1,521 0 0 0 438 0 0 0 798 0 0 0 504 0 0 474 0 0 651 0 0 0 234 0 0 234 0 0 234 0 0 1,362 0 0 1362 0 0 1363 0 0 1,707 0 0	83 4 0 15 8 0 5 13 0 15 8 0 29 1 0 9 11 0 23 4 0 28 9 0 58 1 0 286 9 0 56 2 0	2 1 0	1,867 2 0 775 2 0 532 3 0 1,007 13 0 1,996 8 0 629 2 0 36 0 0 1,043 8 0 90 0 0 1,052 7 0 1,110 6 0 919 7 0 676 8 0 311 1 0 361 8 0 1,355 10 0 2,428 7 0 318 10 0 478 0 0 2,275 5 0
1,864 8 0 1,422 10 6 2,771 4 0 6,058 6 647 0 288 0 909 10 465 0 0 415 14 86 0 1,882 0 909 10 6 465 0 0 415 14 86 0 1,882 0 909 10 6 465 0 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 17 0 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166 6 1 1,166				•••	6,939 9 0	12,378 0 0	776 8 0	13 4 0	20,107 5 0
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	4 2 0	<b>2</b> : 6 0	3 12 0	1 1 6	1,864 8 0 8 4 0 86 10 0 808 8 0 375 6 0 519 12 0 730 2 0 86 10 0	1,422 10 0 308 12 0 228 0 0 909 10 0 479 12 0 1,387 0 0 589 0 0 327 12 0	2,771 4 0 330 0 0 101 4 0 465 0 0 311 4 0 300 0 0 1,233 12 0 30 0 0		6,058 6 0 647 0 0 415 14 0 2,183 2 0 1,166 6 0 2,296 12 0 2,552 14 0 444 6 0
\$\begin{array}{c ccccccccccccccccccccccccccccccccccc			•••		4,587 0 0	6,101 6 0	5,658 12 0		16,347 2 0
\begin{array}{c ccccccccccccccccccccccccccccccccccc	4 5 61		2 3 3	1 15 9	65 3 0 195 9 0 60 14 0 69 9 0 13 1 0	9 10 9 477 4 0 397 8 0 108 14 0 205 0 0 150 9 0	37 7 0 37 7 0 26 7 0 33 1 0 2 8 0		548 1 0 9 10 0 560 1 0 630 3 0 196 3 0 307 10 0 165 13 0 2,879 11 0
\begin{cases} \begin{cases} 3 & 8 & 0 & 2 & 5 & 6 & 1 & 12 & 0 & 0 & 14 & 0 \\ \end{cases} \begin{cases} 101 & 8 & 0 & 147 & 11 & 0 & 45 & 8 & 0 & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \do					1,808 2 0	3,129 7 0	354 11 0		5,292 4 0
1,295 8 0 2,081 6 0 264 4 0 3,581 2	3 8 0	2 5 6	1 12 0	0 14 0	101 8 0 735 0 0 189 0 0 	147 11 0 433 10 0 1,047 11 0 7 1 0 49 8 0 112 8 0	45 8 0 47 4 0 56 0 0  52 8 0 8 12 0		7 1 0 101 11 0
					1,235 8 0	2,081 6 0	264 4 0		3,581 2 0
14,570 3 0 23,690 3 0 7,054 3 0 13 4 0 45,327 13					14,570 3 0	23,690 3 0	7,054 8 0	13 4 0	45,327 13 0

PERGUNNAH
Statement showing Profits due to the operation

1.		2.									
					Reve	NUE 1	ATE PER	UNIRRIGAT	FED ACRE.		
Number.	Nam	e of Mouzah	•		Meesun.		Roslec.	Dakur.	Bhoor.	Meesı	ın.
					Re .	As. P	Re As. P.	Re As.P.	Re As. P.	Rs. As	. P.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Burla Jut Bulwa Puttee Mos Ditto Puttee Hin Bamnolee Tajpore, alias Sum Titoulee Jhal Puttee Guthw Ditto Puttee Khu Seekundra Sehnta Puttee Goo Shamlee Puttee Bhu Ditto Puttee Bhu Ditto Puttee Jow Ditto Puttee Mel Shekhoopoor Kusserwa Khoord Kusserwa Kullan Kheree Kurmoon	dwan abhalka yala arb omanee hasee Ram gwan Singh ahir Singh			2	1 2	2 1 2	1 7 1	0 12 0	234 153 271 265 105 1  132 1  313 350 149 89 62 60 472 1 449 1	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19 20 21 22	Gurh Shaishtpoor Gogurpoor Leloun Moondet	   Total, Chu	  k Shamlee	•••	] 	••				66 302 1	1 0
		10tal, Ollu	k Diminico	•••							
1 2 3 4 5 6 7 8 9	Budheo Bhainswal Jundharee Dhunnena Sulawur Kurroree Kannookhera Gohurnee Mehrumpoor Niamut-oollahpoor				}1 1	20	1 12 0	2 10 0	0 13 7	791 3 36 1 343 159 220 309 1 36 1	0 0 4 0 8 0 2 0
İ	7	Total, Chuk	Bhainswal					•••		1,946	0 . 0
1' 2 3 4 5 6 7 8	Babree Mehal Balt Ditto Mehal Nuw Bunut Puttee Run Ditto Puttee Sow Ditto Puttee Seel Ditto Puttee Moh Bunhera Sonta	rab nzan Ali raee Singh laput			2	6 0	2 6 0	1 12 8	0 15 51	38	0 0
		Total, Chul	k Koodana	•••	•	••				988	0 0
1 2 8 4 5 6 7 8	Bootrara Puttee A Ditto Puttee Jâtâ Khanpoor Sikka Kyree Mehdoodpoor Afgl Ditto Jâtân Muhabutpoor				}1 1	1 0	1 11 0	1 6 0	0 10 0	48 1 354	6 0
	Tota	al, Chuk Bur	itee Khera	•••	-					595 1	1 (
		Gra	ND TOTAL	•••		••	·			7,582	7 (

SHAMLEE.

of the Eastern Jumna Canal.—(Continued.)

7.	· · · · · · · · · · · · · · · · · · ·			8.	9.
Revenue	ON UNIRRIGATED A	REA.		Difference of Reve-	Number of
Roslee.	Dakur.	Bhoor.	Total.	nue between irrigated and unirrigated rates.	wells closed by Canal.
Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	
346 3 0		•••	393 14 0	189 18 0	•••
584 9 0 255 0 0		•••	885 2 0 489 4 0	482 0 0 285 14 0	10
126 7 0	62 1 0	•••	341 14 0	190 5 0	1
371 1 0 1,050 15 0	11 9 0	•••	642 10 0 1,327 13 0	365 3 0 668 11 0	•••
302 10 0	4 5 0	1 8 0	414 3 0	214 15 0	2
24 14 0 551 6 0	11 9 0	•••	24 14 0 695 10 0	11 2 0 347 14 0	4
62 3 0		•••	62 3 0	27 13 0	
348 4 0 327 8 0	4 5 0 21 10 0	•••	665 9 0 699 7 0	386 14 0 410 15 0	9 15
449 13 0	7 8 0	•••	606 4 0	313 3 0	2
360 11 0 424 6 0	17 5 0	•••	449 13 0 203 14 0	226 11 0 107 3 0	6
161 11 0	17 5 0	•••	239 2 0	122 6 0	
323 6 0 941 2 0	43 5 0 213 8 0	7 8 0	846 13 0 1.604 7 0	508 13 0 824 0 0	2 10
74 10 0	41 13 0	•••	1,604 7 0 205 9 0	113 1 0	
250 13 0 1,179 8 0	31 12 0	0 12 0	817 2 0 1.514 10 0	160 14 0 760 11 0	1 5
335 13 0	90 14 0		1,514 10 0 518 12 0	245 8 0	
8,552 13 0	578 8 0	9 12 0	13,143 13 0	6,963 8 0	72
267 12 0	21 0 0		315 0 0	140 4 0	·
1,048 4 0	1,939 14 0	•••	3,779 2 0	2,279 4 0	13
227 8 0 168 0 0	231 0 0 70 14 0	•••	462 0 0 275 10 0	185 0 0 140 4 0	
670 4 0	325 8 0	•••	275 10 0 1,338 12 0	844 6 0	
353 8 0 1,022 0 0	217 14 0	•••	730 10 0	435 12 0 754 4 0	5
1,022 0 0 434 0 0	210 0 0 863 10 0	•••	1,452 8 0 1,607 6 0	945 8 0	9
241 8 0 63 0 0	21 0 0 60 6 0	•••	299 4 0 142 10 0	145 2 0 74 8 0	:::
4,495 12 0	3,961 2 0		10,402 14 0	5,944 4 0	31
339 10 0	16 2 0	•••	391 6 0	151 11 0	7
7 2 0 853 14 0	14 5 0	•••	7 2 0 403 13 0	2 8 0 156 4 0	 5
294 8 0	30 7 0	•••	431 13 0	198 6 0	1
80 12 0 152 0 0	21 8 0 26 14 0	• • • •	135 8 0 216 14 0	60 11 0 90 12 0	1
111 10 0	1 13 0	***	120 9 0	45 4 0	
985 14 0	177 6 0	•••	1,889 12 0	989 15 0	15
2,320 6 0	288 7 0	•	3,596 13 0	1,695 7 0	29
140 1 0	24 12 0	•••	222 3 0	122 14 0	
106 5 0	35 12 0	•••	191 0 0	103 11 0 512 3 0	3
312 3 0 754 5 0	37 2 0 44 0 0	•••	703 11 0 889 7 0	403 4 0	8
5 1 0 j		•••	510	2 0 0 25 0 0	
35 7 0 81 0 0 64 2 0	41 4 0 6 14 0 17 14 0	•••	76 11 0 87 14 0 125 14 0	83 6 0 76 15 0	
1,498 8 0	207 10 0		<b>2,</b> 301 13 0	1,279 5 0	11
16,867 7 O	5,035 11 0	9 12 0	29,445 5 0	15,882 8 0	143

PERGUNNAH
Statement showing Profits due to the operation

۱۰	2.			10.							
				TWENT	r-two Acri	ES ALLOWI	ED TO EAC	H WELL,			
ei	Name of Mouz	ah.									
Number.	•			Meesun.	Roslee.	Dakur.	Bhoor.	Total.			
	Buris Jut	•••			•••			, 			
1 2	Bulwa Puttee Mosulmanan			67	131			198 220			
8	Ditto Puttee Hindwan Bamnolee		•••	105 9	115 8	5	::	22			
4 5	Tajpore, alias Sumbhalka	•••	•••		•••			•••			
6	Titoulee Jhal Puttee Guthwala	•••	•••			,	:::				
7 8	Ditto Puttee Khurb	•••			•••			•••			
9 [	Seekundra	•••	•••	17	69	2	:::	88			
0	Sehnta Puttee Goomanee Shamlee Puttee Ghasee Ram	•••	•••	93	103	2		198			
1 2	Ditto Puttee Bhugwan Singl	ı _.		163	152	15		330 44			
3	Ditto Puttee Jowahir Singh Ditto Puttee Mehuldarpoora	•••	•••	11 26	32 106	1	:::	132			
5	Shekhoopore	•••	•••		•••			•••			
6	Kusserwa Khoord	•••	•••				''' ₁	 44			
7	Kusserwa Kullan Kheree Kurmoon	•••		58	122	40		220			
•	Gurh Shaishtpoor	•••	•••	5				22			
2	Gogurpoor Leloun	•••	•••	22	85	3	:::	110			
2	Moondet		·	···	•••			•••			
	Total, Chuk	Shamlee		611	988	73	1	1,672			
		•									
	Budheo Bhainswal	•••	•••		 96	118		 286			
2	Jundharee	•••						•••			
1	Dhunnens	•••		•••	•••		:::	•••			
5	Sulawur Kurroree	•••	•••	27	₅₉	24		110			
,	Kannookhera	•••	•••	14 62	65 87	9	··· .	88 264			
3	Gohurnee Mehrumpore	•••				115	:::				
5	Niamut-oollahpoor	***	•••	••• .	•••						
	Total, Chuk	Bhainswal		176	307	266		748			
	Babree Mehal Baluk Ram			14	132	8		154			
2	Ditto Mehal Nuwab Bunut Puttee Rumzan Ali	••• *	•••		 134	,	:::	 154			
3 4	Ditto Puttee Sawaee Singh		•••	·6	15	1		22			
5	Ditto Puttee Seelaput Ditto Puttee Mohur Singh	•••,	•••	Ř		4	:::	 			
5 7 8	Bunhera Sonta	••• 3	•••	 124	166	40		330			
	Total, Chul	k Koodana		162	460	60		682			
t	Bootrara Puttee Afghanan Ditto Puttee Jâtân	•••					:::	•••			
3	Khanpore :			38	29	4		66			
	Sikka Kyree	•••	•••	20	166	12	:::	198			
5	Mehdoodpoor Afghanan	•••			•••						
7	Ditto Jâtân Muhabutpore	•••			•••		:::	•••			
- 1							·				
	Total, Chuk Bunt	ee Khera		53	195	16	•••	264			

SHAMLEE.

of the Eastern Jumna Canal.—(Continued.)

		11.					12.		
Rever	TUE DERIVAL	BLE FROM WI	ELL-IRR	IGATION.	REVENUE	ON WELL-IE	RIGATED AR	REA BY I	DRY RATE.
Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
Rs. As. P.	Rs. As. P.	Rs. As. P.	RAP	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	RAP	Rs. As. P.
240 13 0 377 5 0 32 6 0	393 0 0 345 0 0 24 0 0	  9 11 0		633 13 0 722 5 0 66 1 0	 138 14 0 217 11 0 18 10 0	271 8 0 238 6 0 16 9 0	 7 3 0	•••	410 6 0 456 1 0 42 6 0
39 9 0	96 0 0 	1 15 0 		137 8 0 	22 13 0 	66 5 0 	i" 7 0		90 9 0
61 2 0  334 3 0	207 0 0  809 0 0	3 14 0  3 14 0	•••	272 0 0 647 1 0	85 4 0 192 13 0	143 1 0  213 8 0	2 14 0  2 14 0		181 3 0
584 12 0 39 8 0 93 7 0	456 0 0 96 0 0 318 0 0	29 1 0 1 15 0 	•••	1,070 13 0 137 7 0 411 7 0	53 14 0 	315 1 0 66 5 0 219 12 0	21 10 0 1. 7 0 		674 9 0 90 9 0 273 10 0
86 4 0 208 7 0	48 0 0 366 0 0	5 13 0 77 7 0	1 0 0	141 1 0 651 14 0	49 12 0 120 4 0	33 3 0 252 14 0	4 5 0 57 11 0	0 12 0	88 0 0 430 13 0
18 0 0 70 1 9	51 00 255 00 	5 18 0		69 0 0 339 14 0 	10 6 0 45 10 0	85 4 0 176 8 0	4 5 0 		45 10 0 226 2 0
2,195 13 0	2,964 0 0	139 7 0	100	5,300 4 0	1,266 10 0	2,047 15 0	105 12 0	0 12 0	8,419 1 0
<b>297</b> 0 0	228 0 0	442 8 0	•••	967 8 0	 126 00	168 0 0	<b>3</b> 09 12 0		603 12 0
  111 6 0	  . 140 2 0	90 0 0		 341 8 0	 47 4 0	108 4 0	63 0 0		213 8 0
111 6 0 57 12 0 255 12 0	154 6 0 206 10 0	33 12 0 431 4 0	•••	245 14 0 893 10 0	24 8 0 108 8 0	113 12 0 152 4 0 	23 10 0 301 14 0 		161 14 0 562 10 0
•••									
721 14 0	729 0 0	997 8 0		2,448 8 0	306 4 0	537 4 0	698 4 0		1,541 12 0
60 12 0	422 13 0	17 10 0		501 3 0	88 4 0	313 8 0  318 4 0	14 5 0 12 9 0		861 1 0
56 8 0 26 1 0 21 12 0	429 4 0 48 1 0 41 10 0	15 7 0 2 3 0 8 13 0	•••	501 5 0 76 5 0 72 3 0	80 14 0 14 4 0 11 14 0	35 10 0 30 14 0	1 13 0 7 8 0	•••	361 11 0 51 11 0 49 15 0
538 15 0	581 12 0	 88 12 0	•••	1,158 13 0	294 8 0		71 11 0		760 7 0
704 2 0	1,473 8 0	132 3 0		2,309 13 0	384 12 0	1,092 8 0	107 9 0		1,584 13 0
	 68 0 0		 	 190 8 0	 55 11 0	  48 15 0	 5 8 0		 110 2 0
115 & 0 70 0 0 	889 1 0 	7 0 0 21 0 0	•••	480 1 0	33 12 0  .v	280 2 0 	16 8 0 	•••	330 6 0 
•••		•••	•••						
195 8 0	457 1 0	28 0 0		670 9 0	89 7 0	329 1 0	22 0 0	0 12 0	440 8 0
3,807 5 0	5,623 11 0	1,297 2 0	100	10,729 2 0	2,047 1 0	4,006 12 0	931 9 0		6,986 2 0

PERGUNNAH
Statement showing Profits due to the operation

1. —		2.		. <u></u>		18,	14	
ĩo.	Na.	1	Difference of Revenue on area irrigated by wells.	Actual pro due to Can				
						Rs. As. P.	Ra. A	ås. P
1	Burla Jut	***	***	***		***	189	18 (
2	Bulwa Puttee Mosulmanan	***	***	***	***	228 7 0	258	9 (
3	Ditto Puttee Hindwan Bamnolee	***	***	1+4		265 4 0 28 11 0	19 166	10 10
5	Tajpoor, alias Sumbhalka	***	***	***	***	20 11 0	365	8
6	Titoulee	***	***	***		***	668	11
7 8	Jhal Puttee Guthwala Ditto Puttee Khurb	***	***	***		46 15 0	168	0
9	Seekundra	***	***	400	***	90 13 0	11 257	<b>2</b> 1
10	Sehnts Puttee Goomanee	101	***	***	***	30 15 0	27	_
11 12	Shamlee Puttee Ghasee Ran	l.,,	***			237 14 0	149	0
13	Ditto Puttee Bhugwan Sin Ditto Puttee Jowahir Sing	gn.	***	***	- ***	396 4 0 46 14 0	14 266	11 5
14	Ditto Puttee Mehulderpoor	ra.	***	***	***	137 13 0	88	
15	Shekhoopoor	100	***	***			107	3
16   17	Kusserwa Khoord Kusserwa Kullan	***	***	***		53°°	122	6
n	Khereo Kurmoon	411	***	***	144	53 1 0 221 1 0	455 602	
19	Gurh Shaishtpoor	***	***	***	***	441	113	1
90   91	Gogurpoor Leloun	***	#10	***	***	28 6 0	187	8
23	Moondet	***	***	***	***	113 12 0	646 245	15 3
	177		***	***	***	ļ		-
ļ		Tot	al, Chuk Sha	mlee	141	1,881 3 0	5,082	5
l					ĺ			
1	Budheo	***	***	***		***	140	4
2	Bhainswal	•••		447		363 12 0		8
3 4	Jundheree Dhunnens	***	***	***	•••	***	185 140	4
5	Sulawur	•••	***	***			844	6
6	Kurroree	•••	***	***		198 0 0		19 1
7 8	Kannookhera Gohurnec	***	•••	111		84 0 0 331 0 0	670 614	8
9	Mehrumpoor		•••	***	:::	331 0 0	145	2
10	Niamut-collapoor	***	***	***	***	104	74	8
		Total	al, Chuk Bhai	ingwal		906 12 0	5,037	8 (
-					,			
1	Babree Mehal Baluk Ram			*4 *		140 2 0	11	9
3	Ditto Mehal Nuwab	***	***	***	**	***	3	8
4	Bunut Puttee Rumzan Ali Ditto Puttee Sawaee Singh	004	***	***	***	139 10 0 24 10 0	16 178	
5	Ditto Puttee Seelaput	***	***	# 84 844	***	22 4 0		7
5 7	Ditto Puttee Mohur Singh	***	***	***		***	90 1	
8	Bunhera Sonta	***	***	***	***	398 6 0	45 591	9
								_
		Tot	al, Chuk Koo	dana	•••	725 0 0	970	7
	<b>'</b>	,						
1	Bootrara Puttes Afghanan	***	84+1	***		***	122	
2 8	Ditto Puttee Jatan Khanpoor	***	***	199	***	80 6 0	103 : 431 :	
4	Sikka	***	***	***	***	80 6 0 149 11 0	268	9
5	Kyree	•••	***	***		***	2	ō
6 7	Mehdoopoor Afghanan Ditto Jätän		***	***	•••	4=4	25 33	6
8	Muhabutpoor	***	144	***	144	***	. 76	
	•		<b>.</b>					
	Tr.	tal, C	huk Buntee l	Chers	147	230 1 0	1,049	4

				-
8H	Α :	A / I	u	Ľ
ЯΠ	м.	11	1 1 1 1 1	14

of the Eastern Jumna Canal.—(Concluded.)

15.

#### Remarks.

Mr. Colvin holds the opinion that unirrigated 'Meesun' is no better than unirrigated 'Roslee:' it is only when 'Roslee' is irrigated and ma ured that it becomes 'Meesun;' the difference between unirrigated Meesun and Roslee is very slight. In Chuk Bhainswal Dakur produces two crops,—lst, Dhan (rice); 2nd crop, gram; hence rent-rate higher than Roslee.

The total cultivated area in this pergunnah is Wells being numerous in this pergunnah, the high average of one well to 22 acres might be allowed. This would make the number of wells 2,065, of which there are already 747 masonry wells, the balance 1,319 must be reckoned as kutcha wells—giving 18 acres of irrigation to a masonry, and 15 acres to a kutcha well, the account will stand thus:—

747 masonry wells  $\times$  18=13,446 acres of irrigation. 1319 kutcha ditto  $\times$  15=19,785 ditto.

							Rs.	As.	P.				
Total	•••	33,231	acres o	f irrigatio	n	X	2	9	1				
. •				•						F	₹s.	As.	Ρ.
			Avera	ge R <b>even</b> u	e rate of	cir	cles	,	=	= . 85,	327	8	3
Balance		12,224	acres u	inirrigated	l	X	1	6	21				
			Avera	ge Revenu	e rate	•		•	` <b>=</b>	: 16,	951	4	0
			Total .	Pergunnal	ı Jumma				=	1,02,	278	12	3
			Jumm	a assessed					=	1,20,	057	O	U
Difference due to	cane	l were	this av	erage per	gunnah								
account to be	accept	ed, whi	ch of c	ourse is l	iable to								
variation when	teste	l mouza	hwar	•••	•••					17,	778	3	9
Amount of canal	profi	ts by fir	st estin	nate very	much								
below above		-	•••	•••						12,	139	8	0
By second estima	ite un	der dire	ctions o	f Senior M	lember,					-			
Board of Reve	nue		•••	•••						5,	107	0	0

The reason of the smallness of canal profits is, as a rule, water is very close to the surface.

I have not made any estimate for lands that might be thrown out of cultivation were the canal to be closed as I really have no data to go upon. I hold that the increase of population will of necessity keep up the cultivation to the full mark, or nearly so; food must be procured for a crowded population, and this can only be done by utilising every acre of culturable land.

Total deduction allowed, Rs. 5,107.

B.

No.	Pergunnah.	Name of Mouzah.	Area irrigated by Canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
				Rs.	Rs.	Rs.	
1		Burls Jut	190	. 190		190	Rs. 100 allowed for canal profits; water on high lands distant 30 feet.
2		Bulwa Puttee Mosulma- nan	427	482	223	259	Rs. 100 canal profits.
3		Bulwa Puttee Hindwan,	236	286	266	20	Rs. 20 ditto.
4		Bamnolee	178	1 <b>9</b> 0	24	166	Rs. 152 ditto.
5		Tajpoor, alias Sumbhalka,	310	365	•••	365	Rs. 300 ditto.
6	}	Titoulee	643	669		669	Rs. 200 ditto.
7	1	Jhal Puttee Guthwala	202	215	47	168	Rs. 100 ditto.
8		Jhal Puttee Khurb `	12	11	•••	11	No deduction necessary; canal irrigation trifling.
9		Seekundra	338	348	91	257	Ditto ditto, jumma low.
10		Sehnta Puttee Goomanee,	30	28		28	Ditto ditto ditto.
11		Shamlee Puttee Ghasee Ram	322	387	238	149	No deduction; water close to the surface.
12		Ditto Puttee Bhugwan Singh	342	411	396	15	Ditto ditto ditto.
. 13		Ditto Puttee Jowahur Singh	294	313	47	266	Ditto ditto ditto.
.14	SHAMLEE.	Ditto Puttee Mehuldar- poora	217	227	138	89	Ditto ditto ditto.
15	SH	Shekhoopoor	102	107	•••	107	Rs. 51 canal profits.
16		Kusserwa Khoord	119	122		122	No deduction; great natural capability.
17		Kusserwa Kullan	424	509	53	456	Rs. 213 allowed for canal profits.
18		Kheree Kurmoon	819	824	221	603	Rs. 297 ditto.
19		Gurh Shaishtpoor	108	113		113	Rs. 50 the outside that ought to be allowed.
20		Gogurpoor	153	161	23	138	Rs. 73 canal profits.
21		Leloun	738	761	114	647	Rs. 275 ditto.
22		Moondet	267	245		245	No reduction necessary; water close to the surface.
		Total, Chuk Shamlee	6,471	. 6,964	1,881	5,083	
1		Budheo	176	140		140	Rs. 100 canal profits.
2		Bhainswal	1,790	2,279	364	1,915	No deduction allowed; water close to the surface.
3		Jundheree	220	185		185	Do.; jumma below deduced
4		Dhunnena	144	140		140	rates. Rs. 140 allowed as canal profits.
5		Salawur	703	844		844	Rs. 400 ditto.
6		Kuroree	376	436	128	308	Rs. 200 ditto.
7	Ų	Kunnookhera	790	754	84	670	Rs. 304 ditto.

# Abstract of Statement A .- (Concluded.)

B.

9   Mehrumpoor 167 145 145 Rs. 136 ditto. 10   Niamut-collahpoor 70 75 75 Rs. 50 ditto.  Total, Chuk Bhainswal, 5,190 5,944 907 5,037  1   Babree Mehal Balukram, 167 152 140 12 No deduction necessary; great natural capabilities.								
Gohurnee   754   946   331   615   Rs. 300 allowed as canal profits.   Rs. 130 allowed as canal profits.   Rs. 136 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 50 ditto.   Rs. 10 disallowed for canal profits after deducting all profits after deducting all profits after deducting all profits after deducting all profits after deducting all profits.   Rs. 10 disallowed for canal profits.   Rs. 100 canal profits jumma short of full half assets.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 100 canal profits.   Rs. 1	No		Name of Mouzah.	Area irrigated by Canal.	iri o	Difference of Revenue on area trigated by wells.	que	Remarks.
Niamut-oollahpoor   70   75     75   Rs. 50 ditto.	8		Gohurnee	754		1		
Total, Chuk Bhainswal, 5,190 5,944 907 5,037  Babree Mehal Balukram, 167 152 140 12 great natural expabilities.  Ditto Mehal Nuwab 3 2 2 Items below Rs. 10 disallowed Bunut Puttee Rumsan Ali 172 156 140 16 Rs. 16 allowed for canal profits after deducting all possible irrigation.  Ditto Puttee Sawaee Singh 186 198 25 173 Rs. 100 canal profits; jumma short of full half assets.  Ditto Puttee Selaput 60 61 22 39 Modeduction necessary.  Ditto Puttee Salaput 60 61 23 39 No deduction necessary.  Ditto Puttee Salaput 60 61 23 39 No deduction necessary.  Ditto Puttee Mohur Singh 95 91 91 Rs. 60 canal profits; jumma short of full half assets.  Rs. 47 ditto.  Sonta 820 990 398 599 Rs. 407 ditto.  Total, Chuk Koodana 1,554 1,695 725 970  Ditto Puttee Jātān, 118 104 104 Rs. 100 ditto.  Khanpore 422 512 80 439 Rs. 350 ditto.  Kyree 3 2 2 Items below Rs. 10 disallowed.  Mehdoodpoor Afghanan, 51 25 25 No deduction necessary; jumma below deduced rates.  Ditto Jātān 53 33 38 Ditto ditto.  Muhabutpoor 77 77 77 Rs. 76 canal profits.	9		Mehrampoor	167	145		145	Rs. 136 ditto.
Babree Mehal Balukram,	10	1 1	Niamut-oollahpoor	70	75		75	Rs. 50 ditto.
Ditto Mehal Nuwab   3   2     2   Items below Rs. 10 disallowed for canal profits after deducting all possible irrigation.			Total, Chuk Bhainswal,	5,190	5,944	907	5,037	-
Bunut Puttee Rumsan Ali	1		Babree Mehal Balukram,	167	152	140	12	No deduction necessary; great natural capabilities.
Ali 172 156 140 16 Rs. 16 allowed for canal profits after deducting all possible irrigation.  Bitto Puttee Sawaee Singh 186 198 25 173 Rs. 100 canal profits; jumma short of full half assets.  Ditto Puttee Selaput 60 61 22 39 No deduction necessary.  Ditto Puttee Mohur Singh 95 91 91 Rs. 60 canal profits.  Bunhera 51 45 45 Rs. 47 ditto.  Sonta 820 990 398 599 Rs. 407 ditto.  Total, Chuk Koodana 1,554 1,695 725 970  Bootrara Puttee Afghanan 135 123 123 Rs. 100 allowed for canal profits; no kutcha wells.  Ditto Puttee Jâtân, 118 104 104 Rs. 100 ditto.  Khanpore 422 512 80 432 Rs. 350 ditto.  Sikka 553 403 150 253 Rs. 200 ditto.  Kyree 3 2 2 Items below Rs. 10 disallowed.  Mehdoodpoor Afghanan, 51 25 96 No deduction necessary; jumma below deduced rates.  Ditto Jâtân 53 33 38 Ditto ditto.  Rs. 76 canal profits.	2		Ditto Mehal Nuwab	3	2		2	Items below Rs. 10 disallowed.
Ditto Puttee Sawaee   Singh   186   198   25   173   Rs. 100 canal profits; jumma short of full half assets.	3		l Ali	172	156	140	16	profits after deducting all
Total, Chuk Koodana 1,554 1,695 725 970  Bootrara Puttee Afghanan 135 123 123 Rs. 100 allowed for canal profits; no kutcha wells.  Ditto Puttee Jātān, 118 104 104 Rs. 100 ditto.  Khanpore 422 512 80 432 Rs. 350 ditto.  Sikka 533 403 150 253 Rs. 200 ditto.  Kyree 3 2 2 Items below Rs. 10 disallowed.  Mehdoodpoor Afghanan, 51 25 25 No deduction necessary; jumma below deduced rates.  Ditto Jātān 53 33 33 Ditto ditto.  Muhabutpoor 77 77 77 Rs. 76 canal profits.	4	wded.)	Singh	186	198	25	173	Rs. 100 canal profits; jumma
Total, Chuk Koodana 1,554 1,695 725 970  Bootrara Puttee Afghanan 135 123 123 Rs. 100 allowed for canal profits; no kutcha wells.  Ditto Puttee Jātān, 118 104 104 Rs. 100 ditto.  Khanpore 422 512 80 432 Rs. 350 ditto.  Sikka 533 403 150 253 Rs. 200 ditto.  Kyree 3 2 2 Items below Rs. 10 disallowed.  Mehdoodpoor Afghanan, 51 25 25 No deduction necessary; jumma below deduced rates.  Ditto Jātān 53 33 33 Ditto ditto.  Muhabutpoor 77 77 77 Rs. 76 canal profits.	5	Sonci	Ditto Puttee Selaput	60	61	22	89	No deduction necessary.
Total, Chuk Koodana 1,554 1,695 725 970  Bootrara Puttee Afghanan 135 123 123 Rs. 100 allowed for canal profits; no kutcha wells.  Ditto Puttee Jātān, 118 104 104 Rs. 100 ditto.  Khanpore 422 512 80 432 Rs. 350 ditto.  Sikka 533 403 150 253 Rs. 200 ditto.  Kyree 3 2 2 Items below Rs. 10 disallowed.  Mehdoodpoor Afghanan, 51 25 25 No deduction necessary; jumma below deduced rates.  Ditto Jātān 53 33 33 Ditto ditto.  Muhabutpoor 77 77 77 Rs. 76 canal profits.	6	) 	Simal.	95	91		91	Rs. 60 canal profits.
Total, Chuk Koodana 1,554 1,695 725 970  Bootrara Puttee Afghanan 135 123 123 Rs. 100 allowed for canal profits; no kutcha wells.  Ditto Puttee Jātān, 118 104 104 Rs. 100 ditto.  Khanpore 422 512 80 432 Rs. 350 ditto.  Sikka 533 403 150 253 Rs. 200 ditto.  Kyree 3 2 2 Items below Rs. 10 disallowed.  Mehdoodpoor Afghanan, 51 25 25 No deduction necessary; jumma below deduced rates.  Ditto Jātān 53 33 33 Ditto ditto.  Muhabutpoor 77 77 77 Rs. 76 canal profits.	7	TOTAL .	Bunhera	51	45		45	Rs. 47 ditto.
Bootrara Puttee Afghanam   135   123     123   Rs. 100 allowed for canal profits; no kutcha wells.	8	ξ.	Sonta	820	990	<b>39</b> 8	592	Ra. 407 ditto.
Nam   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   N			Total, Chuk Koodana	1,554	1,695	725	970	
Khanpore   422   512   80   432   Rs. 350   ditto.	1			135	123	•••	. 123	
Sikka   583   403   150   258   Rs. 200   ditto.	2		Ditto Puttee Jâtân,	118	104	•••	104	Rs. 100 ditto.
5       Kyree 3       2       2       Items below Rs. 10 disallowed.         6       Mehdoodpoor Afghanan, 51       25       25       No deduction necessary; jumma below deduced rates.         7       Ditto Jâtân 53       33       38       Ditto ditto.         8       Muhabutpoor 77       77       77       Rs. 76 canal profits.         Total, Chuk Buntee Khera, 1,392       1,279       230       1,049	3		Khanpore	422	512	80	482	Rs. 350 ditto.
Mehdoodpoor Afghanan,   51   25     25   No deduction necessary; jumma below deduced rates.	4	- []	Sikka	533	403	150	253	Rs. 200 ditto.
7   Ditto Jâtân 53 33 38   Ditto ditto.	5	- 11	Кугее	3	2	•••	2	Items below Rs. 10 disallowed.
8 Muhabutpoor 77 77 77 Rs. 76 canal profits.  Total, Chuk Buntee Khera, 1,392 1,279 230 1,049	6		Mehdoodpoor Afghanan,	51	25	, •••	25	No deduction necessary; jumma below deduced rates.
Total, Chuk Buntee Khera, 1,392 1,279 230 1,049	7	- 11	Ditto Jâtân	53	33		38	Ditto ditto.
	8	Ų	Muhabutpoor	77	77		77	Rs. 76 canal profits.
Grand Total 14,607 15,882 3,743 12,139 Total allowed, Rs. 5,107.			Total, Chuk Buntee Khera,	1,392	1,279	230	1,049	
			GRAND TOTAL	4,607	15,882	3,743	12,139	Total allowed, Rs. 5,107.

S. N. MARTIN, Collector.

PERGUNNAH
Statement showing Profits due to the

1.	2.				3.		
				ARBA IR	RIGATED BY	Canal.	
No.	Name of Mouzah.		Meesun.	Roslee.	Dakur.	Bhoor.	Total.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 22 23 24 26 27	Aldee, Puttee Nanuk Chund Ditto, ditto Byjnath Ditto, ditto Sudasookh Alum, ditto Khoord Bunehra Buharsee Khowaspoor Rampoor Kharee, Puttee Bunseedhu Ditto ditto, ditto Gosanee Shahpoor Soona Tahurpoor Bhubheesa Futtehpoor Kandhla Mehal Muzbootta Ditto ditto, 15 biawahs Ditto ditto, Mootfurkat Ditto ditto, 5 biswahs Kewana Kunyan Goojurpoor Munaolee Mulukpoor Meemla Nala Hurmuzpoor	       	25 9 22 171 283 137 225 86 180 127 53 31 38 452 24 269 664 81 73 54 175 50 67 46 72 489 137	350 227 260 514 311 187 351 276 205 179 72 235 184 577 194 812 1,637 263 139 141 185 121 119 147 366 468 108	2 17 27 62 191 16 21 41 151 20 29 50 3 6 170 354 48 23 42 7 13 26 152 14 125 5		377 253 309 747 785 340 597 403 536 154 316 225 1,035 274 1,241 2,655 392 235 237 367 184 212 345 21,082
	Total, Chuk Kandhla		4,030	8,628	1,671		14,329
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Asudpoor Ambehta Bussee Bamnolee Bhogurpoor Churhoo Doondoo Khera Doodahur Esapoor, Puttee Sheroo Ditto, ditto Dhun Singh Qasimpoor Koortan Kasolee Gungairoo, Puttee Sadat Ditto, ditto Hindooan Ditto, ditto Mosulmanan		25 23 30 38 10 120 95 7 25 2 49 90 87 81 26	129 240 94 153 48 213 432 117 170 90 183 576 671 1,836 183 104	15 74  80 43 2 31  13  40 40 71 116 23		169 337 124 271 101 335 558 124 208 92 272 705 829 2,033 232 105
	Total, Chuk Kyranah	•••	709	5,238	548	•••	6,495
1 2 3 4 5 6 7 8 9 10 11	Brim Khera, Puttee Lada Ditto, ditto Ramdut Pijokhera Jusola Chuk Doona Kherea Russoolpoor Salah Kheree Fuzulpoor Khalsea Ditto Lakhraj Khindraolee, Puttee Hindooan Ditto, ditto Mosulmanan Lahoreepoor		24 50 108 459 37 81 8 64 42 302 149 89	63 131 272 286 131 228 82 365 223 441 416 51	 195 202 53 12 39 97 32 38 193 68		87 181 575 947 221 321 129 526 297 781 768 208
	Total, Chuk Shamlee		1,413	2,689	929		5,031
	GRAND TOTAL	•••	6,152	16,555	3,148		25,855

· KANDHLA.
operation of the Eastern Jumna Canal.

	4.					5.					
REVENUE	RATE PR	R IRRIGA	TED ACRE.		······································	REVE	NUE O	N IRR:GATED	AREA.		_
Meesun.	Roslee.	Dakur.	Bhoor.	Mee	sun.	Ros	ilee.	Dakur.	Bhoor.	Total.	
Rs. As. P.	Rs. As. P.	Ra, As, P.	Rs. As.P.	Rs.	 Ая. Р.	Rs. A	s. P.	Rs. As. 1	Rs. As. P.	Rs. As.	P.
440	3 6 0	3 0 0	1 15 9	106 38 93 726 1,202 956 365 765 225 131 161 1,100 2,822 344 310 229 743 212 284 195 306 2,078 582	12 0 4 0 8 0 0 0 12 0 4 0 12 0 0 0 0 0 12 0 0 0 12 0 0 0 12 0 0 0 12 0 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,181 766 877 1,734 1,049 631 1,184 931 691 604 243 793 621 1,947 654 2,740 5,524 887 469 475 694 408 401 496 1,235 1,579 364	2 0 8 0 12 0 10 0 2 0 10 0 8 0 14 0 2 0 0 0 0 0 6 0 14 0 14 0 10 0 2 0 14 0 16 0 6 0	51 0 81 0 186 0 573 0 48 0 63 0 123 0 453 0 60 0 87 0 150 0 18 0 168 0 510 0 1,062 0 1,44 0 69 0 124 0 39 0 78 0 45 0	0	1,293 8 855 6 152 0 2,647 6 2,263 14 1,420 0 1,909 14 1,203 14 555 4 1,074 14 791 8 8,886 6 924 12 4,351 4 9,408 14 1,375 14 848 4 831 6 1,389 2 659 14 764 6 1,147 10 1,583 4 4,032 12 961 12	
•		,		17,127	8 0	29,119	8 0	5,018 0	o	51,260 0	0
300	200	1 4 2	0 15 6	75 69 90 114 30 860 285 21 75 6 147 270 261 243 78	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	258 480 188 306 96 426 864 234 340 180 366 1,150 1,342 3,672 366 208	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	93 4 	0 0 0 0 0 0 0 0 0 0 0	351 15 642 4 278 0 520 13 180 3 788 8 1,188 1 255 0 431 6 186 0 563 7 1,470 7 1,692 8 4,061 3 473 0 211 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	_			2,127	0 0	10,476	0 0	690 11	0	13,293 11	0
3 0 6	3 0 0	1 14 115	1 0 3}	86 179 388 1,649 133 291 28 230 150 1,085 535 319	2 0 9 0 0 0 0 0 12 0 0 0 15 0 5 0 8 0	189 393 816 858 393 684 246 1,095 669 1,323 1,248	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	391 2 102 10 23 4 75 8 87 13 .61 15 73 9 373 11	0 0 0 0 0 0 0 0	275 4 572 11 1,581 11 2,898 11 628 10 998 6 350 4 1,512 13 881 14 2,481 14 2,157 3 604 10	0 0 0 0 0 0 0 0 0 0
•		•••		5,078	3 0	8,067	0 0	1,798 12	0	14,948 15	0
•••				24,332	11 0	47,662	8 0	7,502 7	o	79,497 10	0
-	·	•	l	<u> </u>		<u> </u>		<u> </u>		•	<u> </u>

PERGUNNAH
Statement showing Profits due to the operation

1.	2.						(	B.						
			]	Revi	ENU	E RAT	E PEI	נאט	RRIGA	TE	D ACR	E.	Rev	'EN UE
No.	Name of Mouzah.		M	eesu	n.	Ros	lee.	D	akur.		Bhoo	or.	Mee	un.
			Rs.	As.	P.	Rs. A	s. P.	Rs.	As. :	P. 1	Rs. A	s. P.	Rs. As	. P.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Aldee, Puttee Nanuk Chund Ditto, ditto Byjnath Ditto, ditto Sudasookh Alum, ditto Khoord Ditto, ditto Kullan Bunehra Buharsee Khowaspoor Chowaspoor Rampoor Kharee, Puttee Bunseedhun Ditto ditto, ditto Gosanee Shahpoor Tahurpoor Bhubheesa Futtehpoor Kandhla Mehal Mazbootta Ditto ditto, 15 biswahs Ditto ditto, 5 biswahs Kewana Kunyan Goojurpoor Mutnsolee Mulukpoor Meemla Nala		2	9	. 0	2	9 0	2	0 (		. 15	₽ <b>₽</b>	135 79 97 1,158 61 1,701 207 187 138 448 121 171 117	7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
27	Hurmuzpoor  Total, Chuk Kandhla		ر 					_		_ -	<u>.</u>	ر 	851	1 0
1 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Asudpoor		}1		0	1		1	0 1	3	•••		13 165 130 9 34 2 67 123 119 111	6 0 4 0 4 0 12 0 10 0 10 0 14 0 6 0 12 0 10 0
	Total, Chuk Kyranah	•••	_	•••									974	14 (
1 2 3 4 5 6 7 8 9 10 11	Brim Khera, Puttee Lada Ditto, ditto Ramdut Pijokhera Jusola Chuk Doona Khera Salah Kherea Fuzulpoor Khalsea Ditto Lakhraj Khindraolee, Puttee Hindooan Ditto, ditto Mosulmanan Lahoreepoor		}2	1	2	2	1 2	1	7 1	1 0	) 12	0	49 103 223 951 76 167 18 132 87 626 308 184	14 (0 11 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0 14 (0
	Total, Chuk Shamlee					•					•••		2,929	1 (
	GRAND TOTAL	•••		•••			·•				•••		14,230	13 (

KANDHLA.
of the Eastern Jumna Canal.—(Continued.)

	7.			8.	9.			10.		
IN UNIRRIGA	TED AREA.			Difference of Revenue be-	of wells y Canal.	Twa	NTY-TW E	O ACRES		VED TO
Roslee.	Dakur.	Bhoor.	Total.	tween irri- gated and unir- rigated rates.	Number or	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
Rs. As. P.	Rs. As. P.		Rs. As. P.	Rs. As. P.						
896 14 0	4 0 0		964 15 0 638 12 0	328 9 0 216 10 0	6	9	122	1	, <b></b> ]	18
581 11 0 666 4 0	34 0 0 54 0 0		776 10 0	275 6 O	4	6	74		•••	
1,317 2 0 796 15 0	194 0 0 382 0 0		1,879 5 0 1,904 2 0	768 3 0 921 4 0		 48	52	 82		18
479 3 0	<b>32</b> 0 0		862 4 0	399 2 0	5	44	61	5	•••	11
899 7 0 707 4 0	42 0 0 82 0 0		1,518 0 0	685 14 0	5 1	41 5	65 15	4 9	•••	11
525 5 Q	802 0 0		2,288 9 0	621 5 0	18	133	151	112	•••	89
458 11 0 184 8 0	40 0 0 58 0 0		824 2 0 378 5 0	379 12 0 176 15 0		•••	•••	•••	•••	••
184 8 0 602 3 0	58 0 0 100 0 0	•••	781 10 O	298 4 0		•••			•••	•••
471 8 0	6 0 0		574 14 0 2,648 18 0	216 10 0			86	,	•••	
1,478 9 0 497 2 0	12,00 0 0 211	•••	670 10 0	1,287 9 0 254 2 0	7	67 2	16	1 4	•••	14
2,080 12 0	840 0 0		3,084 7 0 6,604 5 0	1,266 13 0			988		•••	
4,194 18 0 673 15 0	708 0 0 96 0 0	•••	6,604 5 0 977 8 0	2,804 9 0 398 6 0	19	104	258	56	•••	4
356 3 0	46 0 0		589 4 0 583 11 0	259 2 0		•••		•••	•••	••
361 5 0 474 1 0	84 0 0 14 0 0		583 11 0 936 8 0	247 11 0 452 10 0		63	66	₈	•••	i
310 1 0	26 0 0		464 8 0	195 11 0	1	6	14	2		1
304 15 0 376 11 0	52 0 0 304 0 0	•••	528 10 0 798 9 0	285 12 0 849 1 0	3 1	21 3	37 9	8 10	•••	
937 14 0	28 0 0		1,150 6 0	482 14 0	10	85	178	7	•••	2
1,199 4 0 276 12 0	250 0 0 10 0 0	•••	2,702 5 0 637 18 0	1,380 7 0 323 15 0	"1	12	10	•••	•••	"
							1014			
2,109 4 0	8,342 0 0		85,778 2 0	15,481 14 0	94	599	1,214	255		2,0
177 6 0	15 8 0		226 15 0	125 0 0	2	6	84	4		4
330 0 0 129 4 0	74 19 0		436 6 0 170 8 0	205 14 0	•••	•••	:::	•••	•••	••
210 6 0	80 18 0		343 7 0	177 6 0				•••		••
66 0 0 292 14 0	48 7 0	:::	123 8 0 459 14 0	57 0 0 828 10 0	•••	•••		•••	•••	••
594 0 0	81 5 0		755 15 0	482 2 0	,	•••		•••	•••	
160 14 0 233 12 0	18 B 0		170 8 0 281 4 0	84 8 0 150 2 0	,	5	86		•••	
123 12 0	•••		126 8 0	59 8 0	2	ĭ	48		•••	
<b>25</b> 1 10 0			859 7 0 954 13 0	904 0 0 515 10 0		•••	•••	•••		••
790 10 0 922 10 0	40 7 0 71 12 0		1,114 0 0	515 10 0 578 8 0		•••			•••	••
2,594 8 0	117 8 0		2,753 1 0 810 10 0	1,308 2 0	5	5	99	6	•••	1
251 10 0 143 0 0			810 10 0 144 6 0	162 6 0 66 10 0	•••	•••		•••		
			0.790 30 0							
7,202 4 0	558 11 0	•••	8,730 18 0	4,562 14 0	10	17	212	13	•••	2
130 10 0 271 9 0	•••		180 6 0 375 8 0	94 14 0 197 8 0					•••	••
563 18 0	281 5 0		1,069 0 0	512 11 0	5	25	62	45		1:
592 14 0 271 9 0	291 7 0 76 7 0		1,835 15 0 424 11 0	1,062 14 0 203 15 0	8	96	60	42	•••	11
472 10 0	17 5 0		657 14 0	340 8 0	7	89	109	6	•••	ï
170 0 0 756 10 0	56 4 0 139 15 0		242 13 0 1,029 4 0	107 7 0 483 9 0		•••		•••	•••	
462 4 0	46 8 0		595 8 0	286 6 0					•••	••
914 3 0 862 6 0	54 18 0 278 7 0		1,595 0 0 1,449 11 0	886 14 0 707 8 0	15 8	128 35	186 96	16 45	•••	38 1
105 12 0	98 2 0		388 6 0	216 4 0		•••			•••	
5,574 4 0	1,840 4 0		9,843 9 0	5,100 6 0	44	829	<b>52</b> 9	154		1,0
<del></del>	<del></del>									

PERGUNNAH
Statement showing Profits due to the operation

1.						11.	
_					Bevent	E DERIVARIA	DROM MELL
No.	Name of Mousah	•		Meesun,	Roslee.	Dakur.	Bhoer.
		<del></del>	_	Rs. As. P.	Rs. As. P.	Ra, As, P.	Ra. As. P.
8 4 5 6 7 8 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ditto, ditto Khoord Ditto, ditto Kullan Bunehra Bunehra Buharsee Khowaspoor Dangrore Rampoor Kharee, Puttee Bunsee Ditto, ditto Gosane Shabpoor Soona Tahurpoor Bhubheesa Futtehpoor Kandhla Mehal Muzbootta Ditto ditto, 15 biswas Ditto ditto, Mootfurkat Ditto ditto, 5 biswas Kewana Kunyan Goojurpoor Muhkpoor Meemla Meemla Nala Hurmuspoor Total, Chul	6		25 8 0 204 0 0 187 0 0 174 4 0 21 4 0 565 4 0  284 12 0 8 8 0 442 0 0 25 8 0 89 4 0 12 12 0 148 12 0 51 0 0	249 12 0 175 8 0 205 14 0 218 6 0 50 10 0 509 10 0 290 4 0 54 .0 0 870 12 0 292 19 0 47 4 0 124 14 0 30 60 12 0 33 19 0	34 0 0 96 0 0 15 0 0 12 0 0 6 0 0 886 0 0  8 0 0 12 0 0 168 0 0 24 0 0 20 0 21 0 0 	
,	Asudpoor	•••	***	18 0 0	68 0 0	5 1 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Ambehta Bussee Bamnolee Bhogurpoor Churhoo Doondoo Khers Doodahur Esapoor, Puttee Sheroo Ditto, ditto Dhun Singh Qasimpoor Koortan Kasolee Gungairoo, Pundit Sadat Ditto, ditto Hindoon		**** *** *** *** *** *** *** *** *** *	15 0 0 8 0 0	79 0 0 86 0 0	3 13 0	104 100 100 100 100 100 100 100 100 100
	Total, Chul	k Kyranah	441	<b>51 0 0</b>	494 0 0	16 7 0	***
1 2 9 4 5 6 7 8 9 10 11 12	Brim Khera, Puttee Lada Ditto, ditto Ramdut Pijokhera Jusola Chuk Doona Khera Russoolpoor Salah Kheree Fuzulpoor Khalsa Ditto Lakhraj Khindraolee, Puttee Hindooan Ditto, ditto Mosulmanas Lahoreepoor	000 000 000 000 000 000 000 000	**** *** *** *** *** *** *** *** *** *	21 9 0 89 14 0 345 0 0 140 3 0	48 0 0 186 0 0 180 0 0 327 0 0  558 0 0 288 0 0	87 2 0 81 5 0 11 10 0  81 0 0 87 2 0	**** **** **** **** **** **** **** **** ****
	Total, Chul	r Shamlee	***	1,182 7 0	1,587 0 0	296 3 0	
	Gra	WD TOTAL	194	<b>3,779 8 0</b>	6,108 4 0	1,079 10 0	944

KANDHLA.
of the Eastern Jumna Canal.—(Continued.)

	•		12.		
RRIGATION.		REVENUE ON WELL	L IRRIGATED ARBA	BY DRY RATES.	
Total.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. I
453 0 0	23 1 0	812 10 0	200		337 11 O
299 4 0	15 6 0	189 10 0			•••
295 4 0			16 0 0	•••	<b>221</b> 0 0
475 8 0 407 14 0	123 0 0 112 12 0	133 4 0 156 5 0	64 0 0	•,•	320 4 0
407 14 0 405 10 0	105 1 0	156 5 0 166 9 0	10 0 0	•••	279 1 0 279 10 0
77 14 0	12 13 0	38 7 0	4 0 0		55 4 0
1,410 14 0	340 13 0	386 15 0	224 0 0	•••	951 12 0
	. •••	•	:::	:::	•••
	•••		•••		•••
578 O O	171 11 0	220 6 0	2 0 0	•••	394 1 0
74 8 0	5 2 0	41 0 0	8 0 0		54 2 0
1,480 12 0	266 8 0	661 2 0	112 0 0	111	1 000 10 0
	200 5 0		112 0 0	•••	1,039 10 0
			•••	•••	•••
499 8 0	161"7 0	169 2 0	60		336 9 0
78 12 0	12 6 0	35 14 0	400	•••	55 4 (
288 2 0   73 2 0	53 13 0 7 11 0	94 18 0 23 1 0	16 0 0 20 0 0		164 10 0 50 12 0
770 8 0	89 11 0	456 2 0	20 0 0   14 0 0	•••	50 12 ( 559 13 (
84 19 0	80.12 0	25 10 0	•••		56 6 C
7,408 0 9	1,534 15 0	8,110 14 0	510 0 0		5,155 13 (
. 91 1 0	8 4 0	46 12 0	4 1 0	•••	59 1 0
	•••			•••	•••
		:::	:::	•••	•••
	•••		•••	•••	•••
	***		•••	•••	•••
				•••	•••
90 18 0	6 14 0	49 8 0	3 1 0	•••	59 7 0
89 0 0		29 3 0	:::	•••	60 8 C
				•••. •••	•••
220 9 0	6 14 0	136 2 0	6 1 0	***	 149 1 0
				•••	
		•••		•••	. •••
491 7 0	23 6 0	291 8 0	13 3 0		328 1 0
				,	***
69 9 0 363 0 0	12 7 0 51 13 0	33 3 0 128 8 0	•••		45 10 (
606 5 0	199 0 0	128 8 0	64 15 0 60 10 0	•••	245 0 ( 384 0 (
479 19 0	90.14 0	225 15 0			•••
478 13 0 	80 14 0	325 15 0	8 11 0	•••	315 8 (
			:::	•,•	•••
1,049   0 0	265 5 0	385 9 0	23 1 0		 678 15 (
500 15 0	72 9 0	199 0 0	64 0 Q	•••	336 8 0
	•••	•••	••• .	•,•	•••
·3,067 ·10 ·0	682 0 0	1,096 9 0	222 4 0		2,000 13 (
10,967 1 0	2, <b>24</b> 0 5 0	4,498 15 0	745 7 0		7,484 11 (

PERGUNNAH
Statement showing Profits due to the operation

					18,	14.
1.	2.					
No.	Mousal	<b>l.</b>			Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 5 17 18 9 22 23 4 25 26 27	Aldee, Puttee Nanuk Chund Ditto, ditto Byjnauth Ditto, ditto Khoord Alum, ditto Khoord Ditto, ditto Kullan Bunchra Buharses Khowaspoor Rampoor Kharee, Puttee Bunseed Ditto ditto, ditto Gosanee Shahpoor Soona Tahurpoor Bhubheesa Tuttehpoor Kandhla Melsal Muzbootta Ditto, ditto 15 biswas Ditto, ditto 15 biswas Ditto, ditto 5 biswas Chewana Ditto, ditto 5 biswas Mulkpoor Mulukpoor Memla Naia Hurmuspoor	5 200  100  200  200  200  200  200  200	hok Kandhla	200 200 200 200 200 200 200 200 200 200		
1 2 3 4 5 6 7 8 9 10 11 13 14 15 16	Asudpoor Ambehts Busee Bamnolee Bhogurpoor Churhoo Doondoo Khers Doodahur Raspoor, Puttee Sheroo Ditto, ditto Dhun Singh Quampoor Koortan Kasolee Gungairoo, Puttee Sadat Ditto, ditto Hindooan Ditto, ditto Hindooan Ditto, ditto Housenan	004 040 044 041 045 040 040 040 040 040	944 494 494 494 993 993 993 994 494 494	000 000 000 000 000 000 000 000 000 00		
1 2 3 4 5 6 7 8 9 10 11 12	Brim Khera, Puttee Lada Ditto, ditto Ramdut Pejokhira Jusola Chuk Doona Khera Russoolooor Salah Kheree Fuzulpoor Khalsa Ditto Lakhraj Khindraolee, Puttee Hondooan Ditto, ditto Mosulmanan Lahoreepoor	Total, (	huk Kyranah Chuk Shamlee	950 494 419 400 100 100 100 100 100 100 100		

**		37	-	**	T 4
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of the Eastern Jumna Canal.—(Concluded.)

15.

#### Remarks.

Water is near the surface in this pergunnah, averaging 5 to 6 feet from surface. In very many places kutcha wells can be made at a moderate cost (Rs. 30); hence it comes to pass that out of a total pergunnah jumma of Rs. 1,11,410, the Canal has been credited with only Rs. 9,456; were the Canal to stop, no doubt the zemindars would take largely to well irrigation. The number of wells that might be constructed under a pressure of this kind is of course conjectural, but it has been thought the safest to assimilate as nearly as possible to the average given by the most advanced estate in each circle. I cannot pretend to precise accuracy in this account so liable to fluctuations of all kinds—the circumstances of each estate have however been carefully considered before applying averages. It has been a work of great labour, as I have had virtually to go over all the assessments de novo. The number of actual wells, masonry and kutcha, were a second time tested before these proposals were completed, and wherever errors were found to exist they were corrected.

Rs. 9,456 allowed in Column 14, Canal profits.

· **B.** 

							·
No.	Pergunnah.	Name of Mouzah.	Area irrigated by Canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
				Rs.	Ra.	Rs.	
1		Aldee, Puttee Nanuk- chund	377	329	115	214	The assessment being already below half assets, no deduc- tion necessary on account of Canal profits.
2		Ditto, Puttee Byjnath	253	217	•••	217	Ditto ditțo.
3		Ditto, Puttee Sudasook	309	275	78	197	Ditto ditto.
4		Alum, Puttee Khoord	747	768		768	Rs. 302 Canal profits.
5		Ditto, Puttee Kullan	785	921	155	766	Rs. 368 ditto.
-6		Bunehra	340	399	129	270	Rs. 100 ditto.
7		Buharsee	597	686	126	560	Rs. 400 ditto.
8		Khowaspoor	403	410	23	387	Rs. 300 ditto.
9		Dangrore	536	621	459	162	No deduction; assessment in- dependent of Canal.
10		Rampoor Kharee, Puttee Bunseedhur	326	380		380	Rs. 150 Canal profits.
11	.	Rampoor, Puttee Gosanee,	154	177		177	Rs. 100 ditto.
12		Shahpoor	816	298		293	Rs. 150 ditto.
13		Soons	225	217		217	Rs. 130 ditto.
14	ļ	Tahurpoor Bhubheesa	1,035	1,238	184	1,054	Ra. 500 ditto.
15	,	Futtehpoor	274	254	20	234	Rs. 130 ditto.
16	KANDHLA	Kandhla Mehal Muzbootta	1,241	1,267		1,267	Nothing allowed; assessment independent of Canal.
17	A	Ditto ditto, 15 biswas,	2,655	2,804	441	2,363	Rs. 1,000 allowed as Canal profits.
18		Ditto ditto, Mootfurkat,	392	398	•••	398	Rs. 200 ditto.
19		Ditto ditto, 5 biswas	235	259	•••	259	Rs. 100 ditto.
20		Kewana	237	248		248	Rs. 191 ditto.
21		Kunyan	367	453	163	290	Rs. 100 ditto.
22		Goojurpoor	184	196	24	172	No deduction ; necessary.
23	1	Mutnaolee	212	236	74	162	Rs. 100 Canal profits.
24		Mulukpoor	345	349	22	327	Rs. 100 allowed ditto.
25		Meemla	452	433	211	222	Rs. 200 ditto.
26	.	Nala	1,082	1,330	•••	1,330	Rs. 472 ditto.
27		Hurmuzpoor	250	324	28	296	Rs. 117 ditto.
		Total, Chuk Kandhla	14,329	15,482	2,252	13,230	
1		Asudpoor	169	125	32	93	Rs. 93 Canal profits.
2		Ambehta	837	206	•••	206	Rs. 100 ditto.
3		Bussee	124	108	•••	108	Rs. 105 ditto.
4		Bamnaolee	271	177	•••	177	Rs. 150 ditto.
5		Bhoogurpoor	101	57		57	Rs. 45 ditto.
6		Churhao	335	329		329	Rs. 200 ditto.
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### Abstract of Statement A .- (Concluded.)

В.

No.	Pergunnah.	Name of Mouzah.	Area irrigated by Canal	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
		,		Ra.	Rs.	Rs.	
8	(	Doodahur	124	84		84	Rs. 50 Canal profits.
9		Esapoor, Puttee Shero	208	150	31	119	Rs. 77 ditto.
10		Ditto, Puttee Dhunsing	92	60	29	81	No deduction called for.
11		Qasimpoor	972	204		204	Rs. 100 Canal profits.
12		Koortan	705	516	•••	516	Rs. 200 ditto.
13		Kasolee	829	578		578	Rs. 150 ditto.
14		Gungairoo, Puttee Sadat,	2,038	1,308	71	1,237	Rs. 500 ditto.
16		Ditto, Puttee Hindooan,	23,2	162		162	Ra. 97 ditto.
16		Ditto, Puttee Mosulmanan	105	67	•••	67	Assessment below half assets; no deduction necessary.
		Total, Chuk Kyranah	6,495	4,563	163	4,400	
	nded.		• • • •	-			
1	KANDHLA.—(Concluded.)	Birm Khera, Puttee	87	95		95	Rs. 73 Canal profits.
2	7	Ditto, Puttee Ramdut	181	198	24	174	Ra. 152 ditto
3	DBLA	Pijokhera	575	518	118	395	Rs. 238 ditto.
4	KAK	Jusala	947	1,063	222	841	Ra. 500 dicto.
5		Chuk Doonakheree	221	204		204	Rs. 100 ditto.
6		Rusoolpoor	321	340	163	177	Rs. 151 ditto.
7		Salah Kheree	129	107		107	Ra. 50 ditto.
8		Fuzulpoor Khalsa	526	484		484	Rs. 200 ditto.
9		Ditto Lakhraj	297	286	•••	286	Rs. 94 ditto.
10		Khindraolee, Puttee Hindraolee	781	887	375	512	Rs. 322 ditto.
11		Ditto, Puttee Mosul- manan	758	707	165	542	Rs. 200 ditto.
12		Lahoreepoor	208	216		216	Rs. 99 ditto.
		Total, Chuk Shamlee	5,031	5,100	1,067	4,033	
			22,855	25,145	3,482	21,663	Ra. 9,456 allowed as Canal profits.

S. N. MARTIN,

Collector.

PERGUNNAH
Statement showing Profits due

1.		2.						3.
							Are	A IRRIGATED
No.	1	Name of 1	Mouzah.			Meesun.	Roslee.	Dakur.
1	Tundehra	•••	•••	•••		701	236	
2	Kasimpoor Bhooms	١	•••	•••		22	42	
3	Kheree Serai	•••	•••	•••		66	288	6
		Total,	Chuk Bho	okurharee		195	566	6
. 1	Buhadurpoor	•••	•••	•••		153	25	
2	Tiroula	•	•••	•••		90	121	9
3	Rajpoor Kullan	•••	•••	•••	·	82	89	
4	Sohnjnee	•••	•••	•••		225	182	16
5	Kooraee	•••	•••	•••		94	889	
6 -	Kethora	•••	•••	•••		88	8	•••
7	Ghutaen Shemalee	•••	•••	•••		839	252	
8	Ghutaen Junoobee	•••	•••	•••		405	59	1
9	Noonee Khera	•••	•••	•••		84	269	1
			Total, (	huk Tissa		1,560	1,889	97
1	Bhooma, 12 biswah	<b>15</b>	•••	***		420	44	•••
2	Ditto, 8 ditto	•••	•••	***		157	93	3
3	Tipurpoor	•••	•••	•••		21	68	•••
4	Surburahpoor, alia	• Tourhar	ree	***		42	365	1
5	Chooreala	•••	•••	•••		68	181	•••
6	Hyderpoor	•••	•••	•••		10	81	•••
7	Digdhera	•••	•••	•••		21	130	•••
8	Rajpoor Khoord	•••	•••	•••		120	88	1
9	Sumbhulhera	•••	•••	•••		23	12	•••
10	Kuteah	•••	•••	•••		83	114	•••
11	Kootubpoor	•••	•••	•••		221	294	***
12	Mujhera	•••	•••	•••		86	166	•••
13	Nizampoor Khola	•••	•••	•••		•••	119	
14	Nugla Kheper	•••	•••	***		58	78	9
15	Hashimpoor, 7 bis	wahs	•••	•••		94	122	1
16		sun Ali, 3	biswahs	•••	•••	46	6	
17	1	rabun, 2 l		•••	•••	20	9	5
18	i	jaut Ali, i		•••	•••	21	30	
19	1	m Ali, 3		•••	•••	50	31	1
20	Ditto Chooneel	-	•••	•••		25	15	3
		-		huk Joulee		1,531	1,991	17
					•••			<del></del>
			Gra	AND TOTAL	•••	8,286	3,946	50

### BHOOMA SUMBULHERA.

to the operation of the Ganges Canal.

	-		4.									
CANAL.		J.	REVENUE RATE PER IRRIGATED ACRE.									
Bhoor.	Total.	Meesun.	Roslee.	Dakur.	Bhoor.							
		Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As P.							
16	359	h I	,	İ								
19	83	2 2 2	1 8 51	0 0 0	0 13 0							
3	368	.										
88	805				***							
	178	h [										
6	226	]]			•							
	171	11	1									
1	424											
16	499	2 4 0	2 0 0}	1 6 21	1 0 11							
	91			1								
27	618	11		Ì								
10	475											
66	420	<u> </u>										
126	3,102				•••							
31	495	I	1									
4	257		1	1								
	84											
	408	1										
16	210	11 1										
	91	11 1										
45	160	11										
	254											
6	41		1									
4	151	1 12 1	1 5 101	1 0 2	1 3 8							
46	561											
21	273		1									
•••	119		1									
	138											
8	220											
	52											
***	34											
***	51		j									
***	82											
105	43	-   -										
185	3,724			•••	•••							
849	7,631			•••	•••							

PERGUNNAH
Statement showing Profits due to the

1.	2.			5.		
~			REVENUE	ON IRRIGATE	D ARBA.	
Number.	Name of Mouzah.	Meesun.	Roslee.	Dakur.	Bho or.	Total.
		Re As. P.	Rs As. P.	Re As. P.	Rs As.P.	Rs. As. P.
1	Tundehra	228 7 0	360 12 0		13 1 0	602 4 0
2	Kasimpoor Bhooma	47 0 0	64 3 0	•••	15 8 0	126 11 0
3	Kheree Serai	140 15 0	440 4 0	9 3 0	2 7 0	592 13 0
	Total, Chuk Bhookurharee	416 6 0	865 3 0	9 3 0	31 0.0	1,321 12 0
1	Buhadurpoor	344 4 0	50 1 0			394 5 0
2	Tiroula	202 8 0	242 5 0	12 8 0	6 5 0	463 10 0
3	Rajpoor Kullan	184 8 0	178 4 0	•••		362 12 0
4	Sohnjnee	.506 4 0	364 8 0	22 3 0	1 10	894 0 0
5	Kooraee	211 8 0	779 0 0		16 15 0	1,007 7 0
6	Kethors	198 0 0	6 0 0			204 0 0
7	Ghutaen Shemalee	762 12 0	504 11 0		28 9 0	1,296 0 0
8	Ghutaen Junoobee	911 4 0	118 2 0	1 6 0	10 9 0	1,041 5 0
9	Noonee Khera	189 0 0	538 11 0	1 6 0	69 18 0	798 14 0
. 1	Total, Chuck Tissa	738 4 0	2,781 10 0		38 2 0	836 9 0
1 2	Bhooma, 12 biswahs Ditto, 8 ditto	275 15 0	60 3 0		4 15 0	- 411 2 0
3	TV	86 15 O	86 2 0	8 1 0		123 1 0
4	Surburahpoor, alias Tourharee	78 18 0	499 0 0	1 0 0		578 13 0
Б	Chooreala	110 12 0	179 2 0		19 11 0	309 9 0
6	Hyderpoor	17 9 0	110 12 0			128 5 0
7	Digdhera	36 15 0	177 12 0		11 1 0	225 12 0
8	Rajpoor Khoord	210 15 0	120 5 0	1 0 0	55 5 0	887 9 0
9	Sumbhulhera	40 7 0	16 6 0		7 6 0	64 8 0
10	Kuteah	58 0 0	155 14 0		4 15 0	218 13 0
11	Kootubpoor	838 8 0	401 15 0		56 9 0	847 0 0
12	Mujhera	151 3 0	226 15 0		25 13 0	403 15 0
13	Nizampoor Khola		162 11 0			162 11 0
14	Nugla Kheper	101 15 0	106 10 0	2 0 0		210 9 0
15	Hashimpoor, 7 biswahs	165 4 0	166 13 0	1 0 0	3 11 0	336 12 0
16	Ditto, Mohsun Ali, 8 biswahs	80 14 0	8 3 0			89 1 0
17	Ditto, Bindrabun, 2 biswahs	35 2 0	12 5 0	<b>5</b> 1 0		52 8 0
18	Ditto, Shoojaut Ali, 1 biswah	86 15 0	41 0 0			77 15 0
19	Ditto, Kurum Ali, 3 biswahs	87 14 0	42 6 0	1 0 0		131 4 0
20	Ditto Chooneelall	48 15 0	20 8 0	3 1 0		67 8 0
1	Total, Chuck Joulee	2,691 3 0	2,722 1 0	17 3 0 25	27 8 0	5,657 15 0
	GRAND TOTAL	6,617 9 0	6,368 12 0	63 13 0 39	91 12 0 1	3,442 0 0

BHOOMA SUMBULHERA.

operation of the Ganges Canal.—(Continued.)

	6.				,	7.		
REVENUE	BATE PER 1	UNIRRIGATE	D ACRE.		REVENUE ON	UNIRRIGA	TED AREA.	
Meesun.	Roslee.	Dakur.	Bhoor.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. A. P.	Rs. As. P.	Rs. As. P.
}1 1 51	i 1 5½	1 0 10	0 9 4	116 12 0	257 8 0 45 13 0		9 5 0	383 9 0 99 14 0
J				212 12 0	304 4 0 607 9 0	6 3 0		384 3 0 867 10 0
}			. !	219 2 0	35 13 0	8 15 0		254 15 0
				128 15 0	173 5 0 127 7 0		4 9 0	315 12 0 244 14 0
1 6 11	1 6 11	0 15 10 <u>}</u>	0 12 1	322 4 0	260 11 0 557 <b>3</b> 0	15 13 0 	0 12 0 12 1 0	599 8 0 703 14 0
				126 1 0 485 9 0	4 4 0 360 15 0		20 6 0	130 5 0 866 14 0
				580 1 0	84 8 0 385 5 0	1 0 0		673 1 0
					1,989 7 0	26 12 0		556 7 0 4,345 10 0
				155 12 0	43 10 · 0 92 4 0	2 2 0	16 5 0 2 1 0	476 11 0 252 3 0
				20 13 0	62 8 0	0 12 0		83 5 0
				62 8 0	130 0 0		 8 7 0	404 9 0 200 15 0
			,	9 15 0	80 6 0 129 0 0		 4 12 0	90 5 0 154 9 0
				119 1 0	87 5 0	0 11 0	.23 11 0	230 12 0
15 101				22 13 0 32 12 0	11 15 0 113 2 0		3 2 0 2 2 0	37 14 0 148 0 0
0 15 10}	0 15 103	0 11 6}	0 85	219 4 0 85 5 0	291 11 0 164 11 0		24 3 0	535 2 0
					118 1 0		11 10	261 1 0 118 1 0
				57 9 0	77 7 0	1 70	•••	136 7 0
				93 5 0 45 10 0	121 1 0 5 15 0	0 12 0		216 11 0
				19 14 0	8 15 0	3 10 0	•••	51 9 0 32 7 0
				20 13 0	29 12 0		•••	50 9 0
	,			49 10 0	30 12 0	0 11 0	•••	81 1 0
<u>J</u>				24 13 0	14 14 0	2 3 0		41 14 0
		<del></del>		1,519 1 0	1,975 7 0	12 4 0	97 5 0	3,604 1 0
· <b>··•</b>	•••	•••		3,966 3 0	4,572 7 0	45 3 0	233 8 0	8,817 5 0

PERGUNNAH
Statement showing Profits due to the

		8.			9,		_	10.				11.
	-	Differen Reven			wells by	Twa	TO E	ACRES		WED		enos Well
usah.		tween gateds irrig rates.	ir ınd ı	ri- m-	Number of closed Canal	Meetun.	Roslee,	Dakur.	Bhoor.	Total.	Meesun.	Roalee.
			_					-		<u> </u>		
		Re							1			1
	•••	218		0		141	***	***	***	***	***	***
h.		İ	13	0	ţ	100	***	***		***	,	***
	•••	208		0								
kurba		454	2	0						***		1+1
	•••	139	6	0		***	***	**	*** ]	***	***	***
	***	147	14	0	***	***	***	***	***		***	***
	•••	117	14	0		444	•••				***	***
	***	294	8	0	•••	•••	***		***		***	***
	•••	303	9	0		•••	'**				144	***
	***	İ	11	0		***		***	***	***		***
	***	429	3	0	840	***	***		***	***	***	***
	***	368	4	0	•••	***		***	***	***	441	***
	•••	242	7	0	***	***	***				***	1+1
less.	***	2,116	11	0	ę+1	4+4	***				***	
pe	***	859	14	0		***	***		100	***		***
	***	158	15	0		***			974	+=1	***	
	***	39	12	0		***	***	111	**1	***	194	***
Tourl	7#Lee	169	4	0					100	4=+	***	***
	***	108	10	0	***	,			***	***	***	···í
	•••	88	0	0		***	-	0.4	***	***		***
	***	71	8	0	.,,			***	***	441		***
		156	13	0				•••		***		***
	***	26	5	0	***		***	411	***	104		***
	***	70	18	0			144		***	***		***
	***	311	14	0				4**				***
		149	14	0			***	,		***		
		44	10	0	l				***		<b> </b>	
	•••	74	2	0						107		***
swaha		190	1	0								
Ali, 8	bie-											ļ
ın, 3	 bin-	37						***	***		***	
Ali, 1		200	) 1	0	441	***		***		100	***	
ALI, 8	***	27	6	0					4=1			
1	**1	50	8			***	***	***	***	***		:::
mlee	***	2,053			***	<del> </del>			[——			
	***	2,000		-	-				<u> </u>			
COTAL	•••	4,624	11	0		***	4+1					

### BHOOMA SUMBULHERA.

operation of the Ganges Canal.—(Concluded.)

				•	12.			13.	14.	15.
DERIVA IRRIGA		eom .	Rev	ENUE C		L IRRIG RATES.		Difference of Revenue on	A	
Dakur.	Bhoor.	Total.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.	area irri- gated by wells.	Actual profits due to Canal.	Remarks.
									Rs. As. P.	
•••									218 11 0	
•••					<b> </b>				26 13 0	
•••		•••							208 10 0	
								•••	454 2 0	
			•••						139 6 0	
•••		•••							147 14 0	
•••									117 14 0	
•••			•••	•••		•••		***	294 8 0	
•••			•••						303 9 0	
•••			•••	•••	•••				73-11 0	
•••			•••	•••	•••	•••		•••	429 2 0	
•••		•••	•••	•••	•••	• •••	•••	•••	368 4 0	
		•••					•••		242 7 0	
						. ,		,44	2,116 11 0	
•••			•••	•••	•••	<i>,</i>		•••	359 14 0	
•••		•••	•••	•••	•••	<i>;</i> ···	•••	•••	158 15 0	
•••						•••	•••	•••	39 12 0	
•••					***	•••	•••	•••	169 4 0	
•••							•••	•••	108 10 0	
•••			""	""		•••			38 0 0	
•••			···	"	***		•••		71 8 0	
•••				•••	"	***			156 13 0	1
•••			""		"	<b>"</b> "	***	***	26 5 0	
•••			***		•••			"	70 13 0	
•••	""	"	***	'''				····	811 14 0	
•••									142 14 0 44 10 0	
	***		···		'''				44 10 0 74 2 0	İ
•••					, ,				120 1 0	
			1	"	'''			"	120 1 0	
***									37 8 0	
•••									20 1 0	
•••									27 6 0	
•••									50 3 0 25 10 0	
<del></del>									2,053 14 0	•
							<del></del>			1
***			•••						4,624 11 0	Rs. 3,553 allowed for Canal profits

S. N. MARTIN,

Collector.

B,

_						
Number.	. Name of Mousah.	Area irrigated by Canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of Bevenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
1	Tundehra					Rs. 200 allowed as Canal profits; no wells on the pro-
2	Kasimpoor Bhooma					No deduction necessary . ivi-
3	Kheree Serai					gation trifling.  Rs. 200 Canal profits.
İ	Total, Chuk Bhookurha- ree					
1	Buhadurpoor we					Rs. 50 Canal profits.
3	Tiroula					Re. 175 ditto.
3	Rajpoor Kullan					Rs. 120 ditto.
- 1	Sohnjnee					Rs. 200 ditte.
, 5	Koorase					Rs. 250 ditto.
6	Kethors					Rs. 50 ditto.
7	Guhtaen Shemalee					Ba. 400 ditto.
8	Ghutaen Junobee					Ra. 850 ditto.
9	Noonee Khera ,					Rs. 150 ditto.
	Total, Chuk Tisen	8,102	# ₃ 137 ₍		2,117	
1	Bhooma, 12 Biswas	495	360	684	860	Ra. 300 ditto.
2	Ditto, 8 ditto	257	159		159	Ra. 150 ditto.
3	Tipurpoor	84	100	***	80	No deduction necessary.
4	Surborahpoor, alias Tour- haree	408	169		169	Re. 100 Canal profits.
5	Chooreala	210	109	***	109	Rs. 100 ditto.
6	Hyderpoor	úī	38		88	No deduction necessary; assessment independent of Canal.
7	Digdhera	160	71		м	Rs. 65 Canal profits.
8	Rajpoor Khoord	254	157		157	Rs. 50 ditto.
9	Sumbulhers	*1	26		26	No deduction necessary ; Canal irrigation a mere trifle.
10	Kutenh	151	71		71	No deduction necessary.
n	Kootubpoor ,	561	312		813	Re. 250 Canal profits.
1,9	Mujhera	273	143		148	Ra 100 ditto.
18	Nuzampoor Khola	119	45		45	Re. 40 ditto.
14	Nugla Kheper	138	74	•••	74	Rs. 70 ditto.
15	Hashimpoor, 7 biswas	220	120		120	Ra. 100 ditto.

#### Abstract of Statement A .- (Concluded.)

В.

Number.	Pergunnah.	Name of Nouzah.	Area irrigated by Canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal,	Bemarks.
16	ſ	Hashimpoor, Mohsun Ali, 3 biswas					Ra. 88 Canal profits.
17	huded.)	Ditto, Bindrabun, 2 bis-					Ra. 25 ditto.
18	(Contro	Ditto, Shoojat Ali, 1 bis- wa					No deduction necessary.
19	HEEA,	Ditto, Kurum Ali, 3 Bis-					No deduction necessary
20	SUMBULEREA (Concluded.)	Ditto, Choonee Lall					Rs. 20 Canal profits.
	Вноожа 8	Total, Chuk Joulee					
	l	GRAND TOTAL	7,631	4,625		4,625	Rs. 3,553 allowed for Canal profits.

This pergunnah is particularly high and dry—no kutchs wells; nor can they possibly be made in such a sandy tract; average depth of water is 30 feet. In the above estimate no allowance has been made for cultivated land that would probably lie waste were the Canal to be stopped. I find it impossible to calculate the amount of such land; for all practical purposes the above is as correct an estimate as can be made.

8. N. MARTIN, Collector.

PERGUNNAH
Statement showing Profits due to the

1.	2.			3.			
			AREA IR	RIGATED BY	CANAL.		
	W	!					
	Name of Mouzah.						
Number.		Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Meesun.
							Re As P.
1	Untwara	245	321	1		567	5
2	Untee Bazeedpoor Kowalee	28 205	47 225	`		75 <b>433</b>	
4	Bisanch	81	479	,	3	567	
5 6	Bitora Pal	85 166	200	20	•••	305 381	
7	Pulree	106	206 225	9 6		337	11
8	Talra Tisung	56	227	5	R	293	l
10	Jansuth	119 352	247 151		•••	366 503	I
11 12	Jitwara	36	102			138	
13	Jundharee Chittora	19 43	 98			19 141	11
14	Choganwa	211	98 677	4		892	
15 16	Ratour Sadpoor	102	159	7		268	} 2 0 9
17	Salarpoor	39 14	110 31	1	,	150 <b>46</b>	11
18 19	Sikhara	147	460	1	18	626	<b>                                     </b>
20	Kowal Kawalee	67	177			244 417	-
21	Khurtoulee	253 19	164 52	•••		71	
22 23	Khalwara Kola Potha	74	178	2	4	258	
24	Muhdour	16 110	104 249			120 362	
25	Muhelkee	173	536	3 2		726	<b>!</b>
26 27	Nugla Churhao Nugla Kubeerpoor	551	362	25	13	951 258	
28	Nugla Muhasing	120 155	138 139			307	IJ
		100	200	10		_	
	Total, Chuk Jansuth	3,592	6,064	106	59	9,821	
1	Ahurwa		24			92	
2	Bhundour Bulharee	, 68 42	35	:::	•••	7.7	
8	Bhulwa	213	70			283 293	
5	Behra Asa	101 1 <b>2</b> 5	182 129	1 1	9	254	<b>                                     </b>
6	Toolseepoor Jerahra	24	59	::: ,	11	94	] [
7 8	Joulee	34 145	50 679	,	4 9	88 8 <b>4</b> 0	
9	Chindoura	5	24	'		29	1
10 11	Duhakharee	88	62		• 3	153 109	11
12	Duhasree	36 118	73 204		1	323	, ,, ,,
13	Russoolpoor Kelour Roorkulee Talib Ali	•••	62	::.		62	1 12 13
14 15	Roorkulee Futteh Ali	46 52	193 257	3 10		242 319	11
16	Kathka Kumha _{ra}	34	259	10		293	
17 18	Khojul _{hara}	. 20	100	6	′ 1	126 276	
19	Khooknee	64 53	209 59	2	1	112	
20	Kharee Ferozabad Mutka	48	262		•••	310	
21 22	Muvee Sadat	38 93	35 136	1 6	9	74 244	
23	Nugla Boozoorg	101	583	5	43	732	] [
24	Nugla Mobarick	162	272		•••	389	J
	Total, Chuk Joulee	1,710	3,973	41	90	5,814	
	GRAND TOTAL	5,302	10,037	147	149	15,635	
25	Pumbora, Chuk Joulee	116	130		•••	246	1 12 1
	Total	5,418	10,167	147	149	15,881	***

JOULEE.
operation of the Ganges Canal.

4	<b>.</b>				5.		
REVENUE RATE	E PER IRRIGAT	ED ACRE.		REVENUE	ON IRRIGATES	AREA.	
Roslee.	Dakur.	Bhoor.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
Rs. As. P.	Re As. P.	Rs As. P.	Rs As. P.	Re As. P.	Rs As. P.	Re As, P.	Rs As. P
1 6 11 <u>3</u>	1 5 24	0 4 10 <del>1</del>	501 8 0 57 5 0 419 10 0 165 13 0 174 0 339 12 0 216 15 0 114 10 0 243 9 0 73 11 0 38 14 0 88 0 0 431 14 0 208 13 0 79 13 0 28 10 0 300 14 0 137 2 0 517 14 0 38 14 0 151 8 0 32 12 0 225 2 0 354 2 0 1,127 13 0 245 10 0 217 4 0	460 8 0 67 7 0 322 13 0 687 3 0 286 15 0 295 8 0 322 13 0 325 11 0 354 5 0 216 10 0 216 10 0 217 13 0 44 8 0 659 15 0 255 15 0 255 5 0 149 3 0 357 3 0 768 15 0 199 6 0	4 0 0		963 5 0 124 12 0 746 6 0 862 5 0 487 3 0 547 11 0 453 7 0 597 11 0 937 2 0 220 0 0 38 14 0 228 9 0 1,108 6 3 0 238 15 0 74 7 0 985 9 0 391 1 0 753 0 0 113 7 0 414 11 0 181 7 0 414 11 0 181 7 0 414 11 0 181 697 5 0 443 10 0 433 14 0
			7,252 4 0	8,699 1 0	140 10 0	77 1 0	16,169 0 0
1 5 10 <u>3</u>	1 0 2	1 3 8}	119 9 0 73 3 6 374 6 0 177 9 0 219 11 0 42 3 0 59 12 0 254 14 0 8 13 0 154 11 0 63 4 0 207 7 0 80 14 0 91 6 0 59 12 0 35 3 0 112 8 0 93 3 0 184 6 0 66 13 0 163 8 0 177 9 0 284 8 0	32 13 0 47 14 0 95 11 0 248 13 0 176 6 0 80 11 0 68 6 0 928 5 0 32 13 0 84 12 0 263 14 0 351 6 0 354 2 0 136 12 0 285 12 0 80 13 0 358 3 0 47 14 0 185 15 0 796 9 0 310 6 0		3 11 0 1 4 0   1 4 0  1 1 1 0	163 1 0 487 10 0 84 12 0 347 12 0 452 14 0 413 14 0 178 0 0 401 8 0 173 13 0 442 9 0 115 11 0 366 9 0 132 9 0 594 14 0
			3,005 10 0	5,431 7 0	41 6 0	110 13 0	8,289 4 0
			10,257 14 0	14,130 8 0	182 0 0	187 14 0	24,758 4 0
1 5 101	1 0 21	1 3 8}	203 15 0	117 12 0			381 11 0
			10,461 13 0	14,308 4 0	182 0 0	187 14 0	25,139 15 0

PERGUNNAH

#### Statement showing Profits due to the operation

1.	2.				6.	
	·		R	EVENUE RATE PER	UNIRRIGATED A	CRB.
Number.	Name of Mouzah.		Meesun.	Roslee.	Dakur.	Bhoor.
_			Re As. P.	Re As. P.	Re As. P.	Re As. P.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	Untwara Untee Bazeedpoor Kowalee Bisanch Bitora Pal Pulree Talra Tisung Jansuth Jitwara Jundharee Chittora Choganwa Ratour Sadpoor Salarpoor Sikhara Kowal Kawalee Khurtoulee Khalwara Kola Potha Muhdour Muhelk ee Nugla Churhao Nugla Kubeerpoor Nugla Muhasing		0 15 10	0 15 10	0 14 <b>5</b> 4	0 11 13
	Total, Chuk Jansuth	•••				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24	Ahurwa Bhundour Bulharee Bhulwa Behra Asa Toolseepoor Jerahra Joulee Chindoura Chindouree Duhakharee Duhakharee Duhasree Russoolpoor Kelour Roorkulee Talib Ali Roorkulee Futteh Ali Kathka Kumhara Khojulhara Khooknee Kharee Ferozabad Mutka Muvee Sadat Nugla Boozoorg Nugla Mobarick		O 15 101	0 15 10 <u>1</u>	0 11 6 <b>4</b>	0 8 5
,	Total, Chuk Joulee	•••				
	GRAND TOTAL					
25	Pumbora, Chuk Joulee	•••	0 15 10}	0 15 10}	0 11 64	0 8 5
	Total	•••	•••		•••	·

JOULEE.
of the Ganges Canal.—(Continued.)

		7.			8.	9.
	Reven	UE ON IRRIGATED	AREA.		evenue ted and tes.	closed
Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Difference of Revenue between irrigated and unirrigated rates.	Number of wells closed by Canal.
Re As. P.	Rs As, P.	Rs. As. P	Rs As. P.	Rs As. P.	Re As. P.	
242 6 0 27 11 0 202 13 0 80 2 0 80 1 0 164 4 0 104 14 0 55 6 0 117 12 0 348 3 0 35 10 0 18 13 0 42 9 0 100 12 0 38 9 0 13 13 0 145 7 0 66 4 0 250 4 0 18 13 0 73 3 0	317 9 0 46 8 0 222 9 0 473 14 0 197 14 0 203 12 0 222 9 0 224 9 0 244 6 0 149 6 0 100 14 0 96 15 0 679 9 0 157 4 0 108 13 0 30 10 0 455 4 0 175 4 0 162 5 0 61 7 0 176 6 0 102 14 0	0 14 0 6 5 0 18 2 0 8 2 0 5 7 0 4 8 0 3 10 0 6 5 0 0 14 0 0 14 0 1 13 0	3 8 0	560 18 0 74 8 0 427 7 0 560 5 0 300 1 0 376 2 0 352 14 0 287 15 0 362 2 0 497 9 0 136 8 0 18 18 0 18 18 0 18 18 0 18 18 0 18 18 0 18 18 0 264 5 0 148 4 0 45 2 0 614 1 0 241 8 0 412 9 0 70 4 0 254 2 0 118 11 0	402 8 0 50 9 0 318 15 0 302 0 0 187 7 0 271 1 0 214 13 0 165 8 0 235 12 0 439 9 0 83 8 0 20 1 0 89 1 0 89 1 0 90 11 0 29 5 0 371 8 0 149 9 0 340 7 0 43 3 0 160 3 4 0	1 2 3 8 19
15 13 0 108 12 0 171 2 0 545 1 0 118 11 0 153 5 0	102 14 0 246 8 0 529 2 0 358 5 0 136 9 0 137 8 0	2 11 0 1 13 0 22 10 0  11 12 0	 10 6 0 9 0 0 	118 11 0 357 15 0 712 7 0 936 0 0 255 4 0 302 9 0	63 4 0 228 6 0 432 13 0 761 5 0 188 6 0 131 5 0	4 6 
3,554 1 0	5,998 9 0	95 12 0	40 14 0	9,689 4 0	6,479 12 0	53
67 7 0 41 11 0 211 6 0 100 3 0 124 0 0 23 13 0 33 12 0 143 14 0 4 15 0 87 5 0 35 11 0 117 2 0 45 10 0 51 9 0 33 12 0 19 14 0 63 7 0 63 7 0 65 9 0 47 10 0 37 11 0 92 4 0 100 3 0 160 12 0	28 13 0 34 11 0 69 7 0 180 10 0 128 0 0 58 8 0 49 10 0 673 11 0 28 13 0 61 8 0 71 7 0 202 7 0 61 8 0 191 9 0 255 1 0 257 1 0 294 0 208 6 0 58 8 0 259 15 0 34 12 0 134 15 0 578 8 0 225 4 0		4 12 0 5 18 0 2 2 0 4 12 0 0 8 0	91 4 0 76 6 0 280 13 0 286 5 0 252 0 0 88 2 0 85 8 0 827 6 0 150 6 0 107 2 0 320 1 0 61 8 0 239 5 0 613 14 0 290 13 0 123 7 0 273 12 0 111 1 0 307 9 0 73 2 0 236 4 0 705 0 0 386 0 0	61 2 0 45 5 0 189 4 0 152 2 0 144 1 0 48 5 0 47 9 0 373 15 0 12 4 0 92 12 0 15 15 0 167 9 0 23 4 0 108 7 0 139 0 0 123 1 0 54 9 0 127 12 0 62 12 0 135 0 0 42 9 0 135 0 0 42 9 0 130 5 0 23 1 0	2 2 1
1,696 8 0	3,942 4 0	29 9 0	47 7 0	5,715 12 0	2,873 8 0	11
5,250 9 0	9,940 13 0	125 5 0	88 5 0	15,405 0 0	9,853 4 0	64
115 2 0	129 0 0			244 2 0	187 9 0	
5,365 11 0	1,069 13 0	125 5 0	88 5 0	15,649 2 0	9,490 13 0	64

PERGUNNAH
Statement showing Profits due to the operation

2.		_		10.		
		T	WENTY-TWO A	CRES ALLOWED	TO BACH WEI	·I.,
Name of Mouzah.			,			
·		Meesun.	Roslec.	Dakur.	Bhoor.	Total
Untwara			•••			•••
Untee					•••	
Bazeedpoor Kowalee Bisanch		10 6	12 37			22 47
Bitora				1		•••
Pal		29	36	1		66 66
Pulree Talra		21	44			
Tisung		•••				•••
Jansuth Jitwara		293	125			418
Jundharee						•••
Chittora						•••
Choganwa Ratour		•••	•••	··· ]		•••
Sadpoor			•••			
Salarpoor					₂	 66
Sikhara   Kowal	:::	8	49	1	*	66 
Kawalee				1	•	
Khurtoulee		6	16		₁	22 22
Khalwara Kola Potha		6 3	15 19		*	22
Muhdour						•••
Muhelkee Nucle Churhee		31 89	98 59	···,	3 2	132 154
Nugla Churhao Nugla Kubeerpoor	:::			4	·*	
Nugla Muhasing		61	54			220
Total, Chuk Jansuth		570	564	12	8	1,154
Ahurwa		83	11			4
Bhundour Bulharee			•••			•••
Bhulwa		15	28			 4
Behra Asa		ii	11			2:
Toolseepoor Jerahra		•••	•••		• •••	•••
Jowlee	•••					•••
Chindoura						
Chindouree Duhakharee						•••
Duhasree						•••
Russoolpoor Kelour			•••			•••
Roorkulee Talib Ali   Roorkulee Futteh Ali			•••			•••
Kathka		5	39			4
Kumhara Khojulhara		14 5	70 17	4		8 2
Khooknee			'	:::		
Kharee Ferozabad					··· ·	•••
Mutka Muvee Sadat			•••		· ***	,
Nugla Boozoorg			•••		1	
Nugla Mobarick			•••			
Total, Chuk Joulee		. 83	176	5		26
GRAND TOTAL		653	740	17	8	1,41
Pumbora, Chuk Joulee						
	ļ					
Total		653	740	17	. 8	1,41

JOULEE.

# of the Ganges Canal.—(Continued.)

11.

_				
KEVENTE	DEDIVABLE	PPAM	WRI.T.	TODICATION

20 8 0 17 8 0		Total,	
90 8 0 17 8 0 17 8 0 10 15 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 1	As. P.	Re Ai	 s. P
90 8 0 17 8 0 17 8 0 10 15 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 15 10 0 1	-	•••	
12 5 0       53 1 0       1 5 0          59 6 0       51 10 0       1 5 0          43 0 0       63 2 0       1 5 0	ļ	•••	_
59 6 0       51 10 0       1 5 0          43 0 0       63 2 0       1 5 0	- 1	37 1 66 1	
43 0 0	ł	•••	
599 12 0       179 5 0	1	112 107	7
599 12 0       179 5 0	l	•••	•
		779 1	0
30 11 0 70 5 0 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10 21	ł		·
30 11 0 70 5 0	1	•••	
30 11 0 70 5 0		•••	
30 11 0	1	•••	
30 11 0	. ]	•••	
19 5 0	0 0	103	10
12 5 0		•••	
6 2 0 27 4 0		35	4
183 7 0 130 10 0 3 13 10 0 1	50	35 33	2 6
182 3 0     84 10 0     5 5 0     2 10       134 14 0     77 7 0     6 10 0        1,166 14 0     799 0 0     15 14 0        58 0 0     15 1 0         26 6 0     38 5 0     1 0 0        19 5 0     15 1 0                                                                                                                 <		•••	
134 14 0 77 7 0 6 10 0  1,166 14 0 799 0 0 15 14 0 10  58 0 0 15 1 0  26 6 0 38 5 0 1 0 0  19 5 0 15 1 0		198 274	0 12
1,166 14 0 799 0 0 15 14 0 10  58 0 0 15 1 0	• •	•••	
58 0 0		208	15
26 6 0 38 5 0 1 0 0  26 6 0 15 1 0  10 0 15 1 0	8 0	1,992	4
26 6 0		73	1
26 6 0		•••	
		65	11
	1	34	6
		•••	
	1	•••	
	.	•••	
	.	***	
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	į	•••	
8 18 0     53 5 0       24 10 0     95 11 0       8 13 0     23 4 0	- 1	•••	
24 10 0 95 11 0 4 1 0	]	62	2
		124	6
145 15 0 240 11 0 5 1 0	1	32	1
		•••	
145 15 0 240 11 0 5 1 0		•••	
145 15 0 240 11 0 5 1 0		•••	
1,312 18 0 1,039 11 0 20 15 0 10		391	11
<u> </u>	8 Q	2,383	15
		•••	
1,812 13 0 1,089 11 0 20 15 0 10	8 0	2,383	

PERGUNNAH
Statement showing Profits due to the operation

٠.	2.				12.	
_			R	EVENUE ON WELL	IRRIGATED AREA E	T DRY RATE.
	Name of Mouzah.		Meesun.	Roslee.	Dakur.	Bhoor.
			Re As. P.	Rs As. P.	Rs. As. P.	Re As. P
u	Untwara	•••				•••
2	Untee Bazeedpoor Kowalee	•••	9 14 0	11 14 0	•••	•••
	Bisanch		5 15 0	36 10 0	0 14 0	•••
5	Bitora	•••	20			•••
5	Pal Pulree	•••	28 11 0 20 12 0	35 10 0 43 8 0	0 14 0 0 14 0	•••
3	Talra		20 12 0	45 6 0		•••
)	Tisung	•••				•••
	Jansuth Jitwara	•••	289 14 0	123 10 0	•••	•••
2	Jundharee	•••		:: i		•••
3	Chittora	***				
	Choganwa	•••				•••
5	Ratour Sadpoor	•••				•••
,	Salarpoor					•••
3	Sikhara		14 13 0	48 8 0		1 6 0
)	Kowal	•••			•••	•••
2	Kawalee Khurtoulee		5 15 O	15 13 0	***	•••
2	Khalwara		5 15 0	14 13 0		0 11 0
3	Kola Potha		2 15 0	18 13 0		•••
•	Muhdour	•••	20.10			
5	Muhelkee Nugla Churhao	700	30 10 0 88 0 0	97 0 0 58 6 0	8 10 0	2 1 0 1 6 0
,	Nugla Kubeerpoor		88 0 0	58 6 0		
3	Nugla Muhasing	<b>,</b>	60 6 0	53 7 0	4 8 0	•••
	Total, Chuk Jansuth	,,,	568 12 0	558 0 0	10 2 0	5 8 0
.	Ahurwa		32 12 0	10 15 0	,,.	•••
2	Bhundour	•••				•••
3	Bulharee Bhulwa	•••	24.14 0	22	0 11 0	•••
5	Behra Asa	•••	14 14 0 10 15 0	27 13 0 10 15 0	0.11	•••
5	Toolseepoor	•••		10 13 0		•••
7	Jerahra	••••				•••
8	Joules Chindours	•••			•••	•••
5	Chindouree	***	•••	•••		•••
1	Duhakharee			:::		•••
2	Duhasree		.,,			•••
3	Russoolpoor Kelour Roorkulee Talib Ali		•••			•••
5	Roorkulee Futteh Ali					•••
6 ¦	Kathka		4 15 0	38 11 0		•••
7	Kumhara	•••	13 14 0	69 7 0	2 14 0	•••
8   9	Khojulhara Khooknee	•••	4 15 0	16 4 0		•••
o	Kharee Ferozabad	,				•••
1	Mutka	•••				•••
2 3	Muvee Sadat Nugla Boozoorg	•••	•••	***	***	•••
4	Nugla Mobarick	•••	,	::.		•••
-						
	Total, Chuk Joulee	***	82 5 0	174 11 0	<b>3</b> 9 0	• •••
	GRAND TOTAL	•••	646 1 0	782 11 0	14 5 0	5 8 0
5	Pumbora, Chuk Joulee		,,,			•••
	Total		646 1 0	732 11 0	14 5 0	5 8 0

JOULEE.

of the Ganges Canal.—(Concluded.)

			<u> </u>			
	13.	14.	15.			
	Difference of Revenue on area irrigated by wells.	ofits				
	ifference of venue on irrigated wells.	to C	Remarks.			
Total.	Differ ven irri vel	Actual profits due to Canal.				
Rs As. P.	Re As. P.	Ra As. P.				
## As. P.  21 12 0 43 7 0 65 3 0 65 2 0 413 8 0 64 11 0 21 12 0 21 7 0 21 12 0 151 6 0 118 5 0  1,138 0 0 43 11 0 43 6 0 21 14 0 43 10 0 86 3 0 21 13 0	Rs- As. P.   15 5 0 23 4 0  47 2 0 42 5 0  365 9 0  38 15 0  38 15 0  13 8 0 13 11 0 11 10 0  90 10 0  854 4 0   29 6 0  29 6 0  90 10 0  854 4 0    18 8 0 38 3 0 10 4 0	Rs As. P.  402 8 0 50 9 0 303 0 0 278 12 0 187 7 2 8 0 165 0 0 235 12 0 74 0 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 83 8 0 20 1 0 21 0 22 8 6 0 331 12 0 44 0 55 10 0 188 6 0 40 11 0 21 0 22 8 6 0 373 15 0 12 14 0 92 12 0 13 0 13 9 0 14 9 0 16 6 0 17 9 0 23 4 0 108 9 0 104 9 0 16 6 0 17 9 0 23 4 0 189 0 0 190 104 9 0 16 6 0 17 9 0 28 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 18 0 0 1	Amount of canal profits by first estimate 8,505 0 0  Amount by second estimate according to orders of Senior Member, Board of Revenue, 3,716 0 0  The average depth of water from the surface is 16 feet 7 inches, actual depth of water in wells 15 feet 3 inches, total to bottom 31 feet 10 inches.  The jumma of canal-irrigated villages is Rs. 53,633, while the profits			
260 9 0	131 2 0	208 14 0	•			
1,398 9 0	986 5 0	8,367 14 0				
		137 9 0	·			
1,398 9 0	986 5 0					
		· · · · · · · · · · · · · · · · · · ·	Q N MADOUN			

B.

Number.		Difference of Revenue between irrigated and unirrigated rates.	ifference of Revenue on area irrigated by wella.	ctual profits due to Canal,	Remarka.
1	17	Rs. 402		12	As kutchs wells feasible at a cost of Re 40 only; Re 200 allowed for canal profits.
	5	81		-1	No deduction necessary; great natural capability.
	13	319		13	Ra 170 capal profits.
	17	302		9	Re 100 ditto.
	15	187		17	Ra 150 ditto.
	n	271		14	Ra- 100 dista.
	17	215		8	Re 100 disto.
	3	165		5	Re 100 ditto.
	'	' '	ı		Re 200 ditto.
					Re 70 ditto.
					No deduction necessary; con- aiderable natural capability.
					No deduction ditto.
					Ra. 50 canal profits.
					Re 216 ditto,
					Re- 95 ditto.
					Re- 50 ditte.
					No deduction necessary; canal irrigation trifling.
					Re- 150 canal profits.
					Re- 100 disto.
					No deduction necessary; jum- ms moderate.
					Rs 30 canal profits.
					Re 50 ditto.
					Ra 50. ditto.
					Re- 100 ditto.
					Re- 100 ditto.
					Rs 350 ditto.
ngis kubeerpare					Ra- 100 ditte.
Jugla Muhasing					Re- 40 ditto.
lotal, Chuk Jansuth	9,891	6,480	854	5,626	

## Abstract Statement A .- (Concluded.)

В.

Number.	Pergunnah.	Name of Mouzah.	Area irrigated by Canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
5		Behra Asa	254	Rs. 144	Rs. 13	Rs. 131	Rs. 50 canal profits.
6		Toolseepoor	94	48		48	Rs. 40 ditto.
7		Jerahra	88	48	,	48	No deduction necessary; jum- ma moderate.
8		Joulee	840	374		374	Rs. 150 canal profits.
9		Chindoura	29	13		13	No deduction necessary; canal irrigation very trifling.
10		Chindouree	153	93		93	Rs. 55 canal profits.
11		Duhakharce	109	56		56	No deduction necessary; much culturable area.
12		Duhasree	323	168		168	No deduction necessary; jum- ma low; ditto as above.
13		Russoolpoor Kelour	62	23		23	No deduction; canal irrigation trifling.
14		Roorkulee Talib Ali	242	108		108	Ra. 50 canal profits.
15		Roorkulee Futtch Ali	319	139		139	Rs. 50 ditto.
16	E8.	Kathka	293	123	19	104	No deduction necessary; jum- ma below deduced rates.
17	Joures.	Kumhara	126	54	38	16	No deduction necessary; ditto.
18		Khojulhara	276	128	19	118	No deduction necessary; jum- ma moderate.
19		Khooknee	112	63		63	Rs. 50 canal profits.
20		Kharee Ferozabad	310	135		135	No deduction necessary; original jumma low.
. 21		Mutka	74	43		43	Rs. 20 canal profits.
22	-	Muvee Sadat	244	130		130	Rs. 50 ditto.
23		Nugla Boozoorg	732	327	•••	327	Rs. 100 ditto.
24		Nugla Mobarik	389	209		209	Rs. 150 ditto.
. 25		Pumbora	246	137	***	137	Rs. 100 ditto.
		Total, Chuk Joulee	6,060	3,010	131	2,879	
		GRAND TOTAL	15,881	9,490	985	8,505	Total canal profits, Rs. 3,716.

S. N. MARTIN,

Coll ctor.

#### PERGUNNAH

### Statement showing Profits due to the

			<del></del>	<del></del>	
1.	2.				3.
					AREA IRRIGATED
		-			
	Name of Mouzah.		Meesun.	Rosles.	Dakur.
Number.					
1 2	Ahmudpoor Ambehta Yakoobpoor		20 92	90 226	56 83
3	Oorungabad		64	313	185
4 5	Boonta Bunehra Ooda		115 187	230 383	34 108
6	Thirwa		1	97	58
7 8	Janeepoor Jusana, <i>alias</i> Mustgurh	:::	3 84	9 98	68 80
9	Khownpoor		29 77	53	62
10 11	Oosmanpoor Qadirpoor		"	153 20	54 12
12	Qazeepoor		62 159	77	29
13 14	Khaira Gudaie Kylshikarpoor		286	241 294	49 132
15	Gurhee Ubdoolla Khan, Puttee Secom		52 2	211	32
16 17	Ditto, Puttee Huftoom Ditto, Puttee Hushtoom		17	40	
18	Goorhana		144 118	102 92	19 88
19 20	Mandulpoor Heend		98	210	136
21 22	Yarpoor Younispoor		94 21	135 50	128 11
23 24	Sohunjnee Pultehree	:::	15 2	120	125 4
	Total, Chuk Bhainswal		1,692	3,271	1,566
1	Bhundora		125	57	•••
2 3	Bhainsance Thana Bhowun, Puttee Kalroo,		169	256 8	160 1
4	Ditto Mehal Muzbutta	•••	25	64 54	14
. <b>5</b>	Ditto Mehal Baghian Dubhairee			6	
7	Gurhee Ubdoola Khan, Puttee Puchdoo	•••	40	163 72	25
8 9	Loharec	•••	67	3	1
10	Niralsa, alias Maroo Kheree	•••	198 33	168 858	19 117
11 12	Nojul Nojlee	•••	126	418	179
13	Hurrur Futtehpoor	•••	9	7 26	•••
14	Jenapad	•••		20	•••
	Total, Chuk Bhesorec		798	1,660	542
	GRAND TOTAL		2,490	4,931	2,108

### THANA BHOWUN.

## operation of the Eastern Jumna Canal.

				4.	
BY CANAL.			Revenue ra	TE PER IRRIGATE	ED ACRE.
Bhoor.	Total.	Mossus.	Rosies.	Dakur.	Bhoor.
32 33     2    	198 434 562 379 628 156 80 262 146 284 32 168 449 712 295 22 71 265 298 444 357 83 260	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.
69 ·	6,598				
	182 585 9 103 86 6 228 139 4 385 508 723 16	2 11 13	1 12 1	1 7 24	
	3,000				
69	9,598			•••	

PERGUNNAH

# Statement showing Profits due to the operation

				б.		
			Revence	ON IRRIGATED	AREA.	
Number.	Name of Mouzah.	Meesun.	Rosiec.	Dakur.	Bhoor.	Total.
_		D. As D	Pa As D			
_		Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.
1 2	Ahmudpoor Ambehta Yakoobpoor	94 9 0 435 1 0	172 14 0 434 1 0	108 13 0 161 5 0	33 2 0	409 6 0 1,064 9 0
3	Oorungabad	302 11 0	601 8 0	359 <b>9</b> 0	34 2 0 	1,263 7 0
5	Bunehra Ooda	543 14 0 647 14 0	735 9 0	66 1 0 209 14 0	···	1,051 11 0 1,593 5 0
6 7	Thirwa Janeepoor	4 12 0 14 3 0	186 5 0 17 5 0	112 11 0 132 2 0	•••	303 12 0 163 10 0
8	Jusans, alias Mustgurh	397 4 0	188 3 0	155 8 0		740 15 0
10	Oosmanpoor	137 2 0 364 2 0	101 13 0 293 14 0	120 8 0 104 15 0	2 1 0	361 8 0 762 15 0
11 12	Kadirpoor Kazeepoor	293 3 0	38 7 0 147 14 0	23 5 0 56 6 0		61 12 0
13 14	Khaira Gudaie	751 15 0	462 14 0	95 4 0		497 7 0 1,310 1 0
15	Gurhee Ubdoola Khan, Puttee	1,352 9 0	564 10 0	256 8 0		2,173 11 0
16	Secom Ditto, Puttee Huftoom	245 15 0 9 7 0	405 4 0 38 7 0	62 3 0		713 6 0
17 18	Ditto, Puttee Hushtoom	80 7 0	76 13 O	25 4 0	i 1 0	47 14 0 183 9 0
19	Goorhana Mandulpoor	681 0 0 558 1 0	195 14 0 176 11 0	36 15 0 171 0 0		913 13 0 905 12 0
20 21	Heend Yarpoor	463 7 0 444 9 0	403 5 0 259 5 0	264 5 0	•••	1,131 1 0
22	Younispoor	99 5 0	96 U O	248 12 0 21 6 0	i 1 0	952 10 0 217 12 0
23 24	Sohunjnee Pultehree	70 15 0	230 8 0 13 7 0	242 15 0 7 12 0		544 6 0 30 10 0
	Total, Chuk Bhainswal	8,001 12 0	6,282 6 0	3,043 5 0	71 7 0	17,398 14 0
1	Bhundora	336 15 0	100 0 0		•••	436 15 0
2	Bhainsanee Thana Bhowun, Puttee Kalroo	455 8 0	449 4 0 14 1 0	232 6 0 1 7 0	•••	1,137 2 0
4	Ditto Mehal Muzbutta	67 6 0	112 5 0	20 5 0	•••	15 8 0 200 0 0
5 6	Dubhairee	16 3 0	94 12 0 10 8 0	37 19 0 	•••	148 11 0 10 8 0
7	Gurhee Ubdoolla Khan, Puttee Puchdoo	107 13 0	285 15 0	36 5 O	•••	
8	Gogwan	180 9 0	126 6 0		•••	430 1 0 306 15 0
9 10	Niralsa, alias Maroo Kheree	583 11 0	5 4 0 294 13 U	1 7 0 27 9 0	••• •••	6 11  0 856  1  0
11 12	Munut Muntee Nojul Nojlee	88 15 0 339 10 0	628 4 0 733 9 0	169 14 0 259 15 0	•••	887 1 0 1,333 2 0
13 14	Hurrur Futtehpore Jellabad	24 4 0	12 5 0 45 10 0		 	36 9 0 45 10 U
	Total, Chuk Bheaoree	2,150 14 0	2,913 0 0	787 0 0		5,850 14 0
	GRAND TOTAL	10,152 10 0	9,195 6 0	3,830 5 0	71 7 0	23,249 12 0

THANA BHOWUN.

of the Eastern Jumna Canal.—(Continued.)

	6									7.						
REVENUE E	ATE PER U	)NIRRIGAT	ED ACRE.			Rev	PENT	<b>738</b> (	ON UNI	RRIG	ATI	ED 4	REA.			_
Meesun.	Roslee.	Dakur.	Bhoor.	Mees	on,	Roi	ilee.		Dal	kur.		В	hoor.	Tot	al.	
Rs. As. P.	Rs. As. P	Rs. As. P.	Rs. As. P.	Rs. A	 As. P.	Rs.	As.	<b>P</b> .	Rs,	As.	P.	Rs.	As. P.	Rs.	 As.	P.
1 4 10]	1 4 101	1 8 10}	0 12 10 <del>]</del>	119 1 83 149 1 178 1 3 1 109 37 1 100	7 0 4 0 9 0 5 0 5 0 8 0 3 0 6 0	117 294 408 299 499 126 11 127 69 199 26 100 314		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		15 0 14 0 13	0 0 0 0 0 0 0 0 0 0 0 0 0	25 26		238 512 721 491 811 199 109 836 185 366 40 217 582 919	12 12 1 8 7 13 15 3	000000000000000000000000000000000000000
				187 1 158 1 127 1 122 27	0 0 3 0 1 0 3 0 2 0 8 0 6 0 9 0	65 156	15 11 0 3	00000000	109 168 158 13 155	 9 8 12 13	0 0 0 0 0 0 0 0 0		 13 0   13 0	382	3 15 8 5 0 2	0 0 0 0 0 0 0 0 0
				2,205	8 0	4,263	15	0	1,941	2	0	55	7 0	8,466	0	0
				31	5 0 6 0 8 0	71 821 10 80 67	7 0 1 4 11 8	0 0 0 0 0	173 1 15 28	1 2	0 0 0			228 , 706 11 126 103	3 1 2 12 5 8	0 0 0 0
14 04	1 4 01	1 1 31	<b></b>	84 248 41 158 11	0 0	210 448 524	14 2 12	0 0 0 0 0 0 0			0 0 0 0		•••	479 616 875 20	18 8 14 18 1	0 0 0 0 0 0
				1,000 1	1 0	2,081	6	0	586	7	<u> </u>			8,668	8	0
	•••			3,206	<b>3</b> 0	6,345	5	0	2,527	9	0	55	7 0	12,134	8	0

PERGUNNAH
Statement showing Profits due to the operation

		8,			Œ	anoway 17	10.	
		rigated and	rigated and			T	WENTI-TWO A	ONE ALLOWE
Number.	Name of Mousah.	Difference of Berenus between in	unirrigated rates.		Number of wells closed by Canal,	Meesun.	Roslee.	Dakur.
		Ra. A	. P.				•	
1 2 2 3 4 5 6 7 8 9 10 1 12 13 14 15 16 17 8 19 20 21 22 3 22 4	Ahmudpoor Ambehts Yakoobpoor Oorungabad Boonts Bunehra Ooda Thirwa Janeepoor Jusana, alias Mustgurh Khanpoor Oosmanpoor Kadirpoor Kazeepoor Khaira Gudale Kylshikarpoor Gurhee Ubdoolla Khan, Puttee Secom Ditto, Puttee Huftoom Ditto, Puttee Hushtoom Goorhana Mandulpoor Heend Yarpoor Younispoor Sohunjnee Pultehree	170 523 542 659 781 104 63 404 176 390 280 727 1,253 380 19 92 569 522 560 496 110 213 13	13 9 0 14 9 0 9 7 1 1 2 1 3 4 4 1 4 1 5 1 1 5 1 1 4 4 1 5 1 5 1 1 5 1 5	000000000000000000000000000000000000000	3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5 2 3 5	10 20 29  35 9 18  24 8 27 5  11 36 17 10 46 6 5	49 40 80 41 41 16 86 7 50 13 27 63 25 25 14 21 66 41	13  29 6 28 25  34 18 19  12 2 12 10  7 5 13 14 15 12 
	Total, Cour Diminsum	0,000		_			660	343
1 2 3 4 5 6 7 8 9 10	Bhundors Bhainsanee Thana Bhowun, Puttee Kalroo, Ditto Mehal Muzbutta Ditto Mehal Baghian Dubhairee Gurhee Ubdoolla Khan, Puttee Puchdoo Gogwan Loharee Niralsa, alias Maroo Kheree Munut Muntee	208 451 4 73 45 8 148 182 182 187 876	12 1 6 4 6 0 7	00000000000	8	  	126	19
12 13 14	Nojul Nojlee Hurrur Futtehpore	457 16 13	5 8 0	000	6	38	47 76 	15 88
	1, Chuk Bhenoree	9,183	•	0	17	58	249	67
	GRAND TOTAL	11,115	4	0	78	288	909	410

THANA BHOWUN.

### of the Eastern Jumna Canal.—(Continued.)

				11.						
ÈACH WELL		Revenue derivable from well irrigation.								
Bhoor.	Total .	Meesun.	Roslee.	Dakur.	Bhoor.	Total.				
	<del></del>		D. As D	Rs As, P.		Re As. P.				
Ì		Re As. P.	Rs As. P.		Re As. P.					
7	44	18 15 0	88 7 0	25 4 0	7 4 0	89 14 (				
		47 10 0	94 2 0	56 6 0		198 2				
	66 132	94 9 0 137 2 0	76 13 0   153 10 0	21 11 0 44 11 0	:::	183 1 ( 835 7 (				
:::	66	137 2 0	78 12 0	48 9 0		127 5				
	110	165 8 0	78 12 0	66 1 0	·	310 5				
ï	44	42 9 0	30 12 0	<b>85</b> 0 0	1 1 0	109 6 177 9				
		85 2 0	69 2 0	28 5 0 	:::					
	66 22	113 8 0	57 10 0	<b>23</b> 5 0		194 7 64 12				
	66	37 13 0 127 11 0	23 1 0   51 14 0	3 14 0 23 5 0		202 4				
	88	1	l	19 7 0		211 6				
:::		70 15 0	121 0 0	•••		•••				
1	44 66	52 0 0 170 4 0	48 0 0	18 10 0 9 11 0	110	114 11 227 15				
	44	170 4 0 80 6 0	48 0 0   26 14 0	<b>25 4</b> 0	•••	132 8				
	44 176	47 5 0 217 9 0	40 5 0 126 12 0	25 4 0 124 6 0		112 14 ( 468 11 (				
:::	22	28 6 0	24 15 0	5 13 0		59 2				
		23 10 0	78 19 0	81 10 0		184 0				
•••	•••			•••• ,						
				·						
9	1,342	1,560 14 0	1,267 9 0	666 8 0	9 6 0	3,504 5				
•••				•••		•••				
	***		:::	•••		•••				
	•••			•••	:::	•••				
•••	•••		•••	•••	•••	•••				
	176	88 9 0	221 1 0	<b>27 9</b> 0	l l	332 3				
•••	***	68 9 0				••				
	***			•••		•••				
	66	10 18 0	82 8 0	21 18 0		115 2 ( 243 5 (				
	132	62 0 0	133 6 0	47 15 0 		243 0				
•••	•••			•••		•••				
	374	156 6 0	436 15 0	97 5 0	•••	690 10				
9	1,716	1,717 4 0	1,704 8 0	763 13 0	9 6 0	4,194 15				

PERGUNNAH
Statement showing profits due to the operation

				12.
			Revenue on wa	LL-IRRIGATED _. Abi
Number.	Name of Mouzah.	Meesun.	Roslee.	Dakur.
-		Ra As, P.	Be As. P.	Re As. P.
- 1				
1 2	Ahmudpoor Ambehta Yakoobpoor	5 <b>3</b> 0	26 1 0	16 2 0
3	Oorungabad	13 1 0	68 14 0	36 0 0
4 5	Boonta Bunehra Ooda	26 1 0 37 13 0	52 2 0 104 4 0	7 7 0 28 9 0
6	Thirwa		58 7 0	31 0 0
7	Janeenoor	•••	50 m A	40
8	Jusans, alias Mustgurh Khownpoor	45 10 0 11 12 0	53 7 0 20 14 0	42 3 0 22 5 0
ő	Oosmanpoor	23 7 0	46 15 0	14 14 0
1 2	Qadirpoor	31 4 0	89 2 0	14 14 0
8	Qazeepoor ··· Khaira Gudaie ···	10 7 0	15 10 0	280
4	Kylshikarnoor	35 3 0	35 8 0	14 14 0
5	Gurhee Ubdools Khan, Puttee Secom	19 9 0	82 2 0	12 7 0
6	Ditto. Puttee Huftoom	•••		•••
7	: Ditto, Putter Hushtoom	. 14 5 0 48 14 0	32 9 0	8 11 0 6 3 0
8	Goorhana Mandulpoor	22 3 0	18 4 0	16 2 0
10	Heend	13 1 0	27 6 0	16 2 0
12	Yarpoor	59 15 O 7 13 O	86 0 0	79 7 0 8 12 0
3	Younispoor Sohunjnec	6 8 0	53 7 0	52 2 0
14	Pultehree	•••		***
	m	430 1 0	860 5 0	425 10 0
	Total, Chuk Bhainswal			430 10 0
		***		***
1 2	Bhundora Bhainsanee	•••	•••	•••
3	Thana Bhowun, Puttee Kalroo	•••		•••
5	Ditto Mehal Muzbutta Ditto Mehal Baghian	•••		•••
6	Dubhairee	•••		•••
7	Gurhee Ubdools Khan, Puttee	. 38 14 0	158 0 0	20 9 0
8	Gogwan	•••		•••
9 10	Loharee Niralsa, alias Maroo Kheree	•••		•••
11	Munut Muntee	8 O O	58 15 0 95 5 0	16 4 0 35 11 0
12 13	Nojul Nojlee Hurrur Futtehpoor	, 28 18 O 	35 5 6	85 11 0 
13	Jellabad	***		•••
	Total, Chuk Bhesoree	, 72 11 0	312 4 0	72 8 0
	GRAND TOTAL	502 12 0	1,172 9 0	498 2 0

THANA BHOWUN.

of the Eastern Jumna Canal.—(Concluded.)

		13.	14.	15.
Bhoor. Total.		Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
Rs As. P.	Re As. P.	Rs. As. P.	Re As. P.	
5 10 O	53 0 0	36 14 0	183 15 0	
			522 9 0 456 la 0	
•••	112 15 0 85 10 0	85 <b>3 0</b> 97 7 0	462 7 0	
	170 10 0	164 13 0	616 19 0	
•••	84 7 0	42 14 0	61 2 0 63 9 0	
	141 4 0	169 1 0	<b>23</b> 5 6 0	
0 13 0	55 1 <b>2</b> 0	53 10 0	122 7 0	
•••	85 4 0	92 5 0	303 13 0 20 13 0	,
	85 4 0	109 3 0	171 1 0	
	28 9 0	36 3 0	691 11 0	
•••	85 4 0	117 10 0	1,136 5 0	
	114 2 0	97 4 0	233 11 0	
***	•••		1980	
0 18 0	56 6 O	58 5 0 142 5 0	34 0 0 427 5 0	
	85 10 0 56 9 0	75 15 0	446 14 0	
•••	56 9 0	56 5 0	<b>504 9</b> 0	
•••	225 6 0	243 5 0	252 0 0	
•••	28 10 0	30 8 0 71 15 0	80 4 0 141 5 0	
•••	112 1 0		13 15 0	
7 4 0	1,728 4 0	1,781 1 0	7,151 13 0	
			000 10 0	
•••	•••		208 12 0 431 1 0	}
	***		4 6 0	
	•••		73 4 0 45 6 0	1
	•••	:::	300	1
	619 # 6			
•••	217 7 0 	114 12 0	33 11 0 132 11 0	1
•••	•••	•••	1 14 0	1
•••	•••		<b>376 9 0</b>	1
•••	80 3 0 159 13 0	34 15 0 83 8 0	235 4 0 373 13 0	
•••	109 10 0	83 6 0	373 13 0 16 8 0	1
•••	***		13 0 0	
	•	j l		j
	457 7 0	000 0 0	1040 2 6	1
	#01 / U	233 3 0	1,949 3 0	·
7 4 0	2,180 11 0	2,014 4 0	9,101 0 0	Rs. 6,024 allowed profits due to Canal.

# Abstract of Statement A.

B.

1.	E	<b>3</b> .	4.	5.	6.	7.	
Number.	Pergunnah.	Name of Mousah.	Ares irrigated by Canal.	Difference of Revenue between irrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
					**	104	Re 106 allowed.
1	[	Ahmudpore	198	171	87	134 523	Re 300 ditto.
2		Ambehta Yakoobpoor,	484	523 542	85	457	26 436 ditto.
3	H	Oorungabad	562	560	98	462	Re 300 ditto.
<b>4</b> 5		Boonta Bunchra Ooda	628	TAN	165	617	Re 500 ditto.
5			156	104	100	61	Re 61 ditto.
7		Janeepoor	80	64		64	No. 57 ditto.
		Jusane, alias Mustgurh,	262	404	169	N 19.5	Re 230 ditto.
9		Khanpoor	146	176	54	122	Re 121 ditto.
10		Cosmanpoor	284	396	92	804	Re 271 ditto.
11	1	Kadirpoor	32	21	414	21	No deduction necessary—canal-irri-
12		Kaseepoor	168	280	109	171	gated area being a mere trifle.  Re- 146 allowed as canal profits.
18		Khuira Gudaie	449	798	. 88	672	Re 400 ditto.
14	H	Kylshikarpoor	712	1,964	118	1,136	Re- 280 ditto.
15		Gurhee Ubdoolla Khan,				234	Re 200 ditto.
••	OWDE.	Puttee Secom	395	831	97	19	No deduction necessary.
16	8	Ditto, Puttee Hustcom,	22	92	58	34	Ditto ditto.
17 18	THANA		71 265	569	142	497	Re 298 allowed
19	F		298	523	76	447	Re 370 ditto.
20	1	VI3	244	561	56	505	Re-140 ditto.
21		Yarpoor	857	495	248	252	Re 250 ditto.
22		Younispoor	- 83	111	81	80	Re- 80 ditto.
23		Sohunjnee	260	213	79	141	Re- 144 allowed for Canal profits.
24		Pultehreo	13	14		I.e	No deduction necessary—area irri-
-							gated being limited.
		Total, Chuk Bhainswal,	6,598	8,983	1,781	7,152	
1		Bhundora	182	209	***	209	Rs 100 only allowed for Canal pro- fits.
2		Bhainsanee	585	431		+51	Re 369 ditto.
4	$  \{$	Thana Bhownn, Puttee Kalroo Ditto Mehal Muzbutta,	103	78		73	No deduction necessary; area irri- gated triffing. No deduction necessary; culturable
	[	<u> </u>					area extensive.

#### Abstract of Statement A.—(Concluded.)

B.

		<del>,                                     </del>					
1.	2.	8.	4.	5.	6.	7.	8.
Number.	Pergunnah.	Name of Mouzah.	Ares irrigated by Canal.	Difference of Revenue between irri- gated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
5		Thana Bhowun, Mehal Baghian	86	45		45	No deduction appears necessary; canal irrigation limited, and much culturable land.
6		Dubhaihree	6	3		8	No deduction necessary; ditto.
7		Gurhee Ubdoolla Khan, Puttee Puchdoo		148	115	33	Re 35 allowed for canal profits.
8	BHOWUN.—(Concheded.)	Gogwan	139	133		183	No deduction necessary; assessment independent of canal.
9	) Jr. –	Loharee	4	2		2	No deduction necessary; canal irrigation insignificant.
10	Тили Виочт	Niralsa, alias Maroo Kheree	385	877		877	Rs 277 allowed as canal profits.
11	Ta.	Munut Muntee	508	270	85	235	Re 235 ditto.
12		Nojul Nojlee	723	457	83	874	Re- 368 ditto.
13		Hurrur Futtehpore	16	17		17	No deduction necessary; assessment independent of Canal.
14	Ü	Jellabad	26	13		13	No deduction necessary; canal irrigated area very trifling.
		Total, Chuk Bheaoree	3,000	2,182	233	1,949	-
		GRAND TOTAL	9,598	11,115	2,014	9,101	Re 6,024 allowed as profits due to Canal.

The average depth of water in this Pergunnah is 15½ feet.

In this Statement no attempt has been made to show what amount of land would be thrown out of cultivation if the Canal stopped. I have no data from which I could make the calculation.

S. N. MARTIN,

Collector.

PERGUNNAH

Statement showing pro	stits due	to the
-----------------------	-----------	--------

1.	2.			8,				4.			
		A	Arba (reigated by canal.					REVENUE RATE PER IERIGATED ACRE.			
No.	Name of Mouzah,	Meens.	Boslee.	Dakur,	Bhoor,	Te.	Meenn.	Roulee.	Dakur.	Bhoor.	
		Me	Bou	Total	Bbc	Total		Rs. As. P.	<u>Ā</u>	- Bb	
	Chuk Koodana,										
1	Khurer	44	156	***		200	3 4 2	2 ; 61	***	444	
-											
					•						
	•	,									
	<i>'</i>										
·	<b>)</b>		:								
		_			<u> </u>		ļ —			<u>                                     </u>	
	Total	44	156	164	•	200	***			***	

BOORHANA.
operation of the Eastern Jumna Canal.

		5.				6.				
	REVENUE ON	IRRIGATE	AREA.		REVENUE RATE PER UNIRRIGATED AGRE.					
Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Meesun.			Bhoor.		
Rs. As. P.	Rs. As. P.			Rs. As. P.	Rs. As. P.	Rs. As. P.				
148 5 0	<b>326 1</b> 5 0			470 4 0	1 4 10	1 4 10		•••		
				•						
•				,						
							1			
								•		
			·		<del></del> .					
143 5 0	826 15 0	•••		. 470 4 0	•••			•••		

PERGUNNAH
Statement showing profits due to the operation

1.	2.		7.								
		Rev	Revenue on unineigated area.								
No.	Name of Mouzah.				of revenue ind unirriga	rells closed					
-		Meesun.	Roalee,	Dakur. Bhòor. Total.	Difference of revenue between irrigated and unirrigated rates.	Number of wells closed by Canal.					
	Chuk Koodana.	Rs. As. P.	Rs. As. P.		Rs. As. P.						
1	Khurur	57 4 0	203 1 0	260 5 0	209 15 0	·					
	•										
		<u> </u>	,			i					
	•				·						
			•								
,											
,											
					.						
	Total	57 4 0	203 1 0	260 5 0	209 15 0						

BOORHANA.

nnah

ration

Number of wolls closed by Canal.

of the Eastern Jumna Canal.—Concluded.

		10.					11.			12.		13.	14.	15,			
	TOW	T-TWC	BAC		REFRO	VENU M WRI	E DE	RIVAE	ILE ION.		EVENT RRIGAT DR		rea i		on area irri-	on area irri-	
	Roslec.	Dakur.	Bhoor.	Total.	Mecsun.	Roslec.	Dakur.	Bhoor.	Total.	Mcesun.	Roslee.	Dakur.	Bhoor.	Total.	Difference of revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
																Rs. As. P.	
.						•••	•••					•••		•••	•••	209 15 0	
				-													
											;				-		
								•									
															•		
							•										
-			 													209 15 0	

## Abstract of Statement A.

B.

No.	Pergunnah.	Name o	f Mouzah.	Area irrigated by Canal,	Difference of revenue between trigated and unirrigated rates.	Difference of revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
1	Boorhana	Chuk I	Coodana.	200	210	444	210	
		-						i
				•				
						)		
	•		·	4		:		
				,				
					•			
!								
			Total	200	210	***	210	Profits due to canal, Rs. 210 no kutcha wells to be seen.

S. N. MARTIN, Collector.

## PERGUNNAH SHIKARPORE.

Statement showing profits due to the operation of the Eastern Jumna Canal.

1.	2.			3.				4	•		
	Name of Mouzah.		Area iri	RIGATED 1	SY CANAL	•	REVENUE RATE PER IRRIGATED ACRE.				
Number.	Name of Mouzan.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Meesun.	Roslee.	Dakur.	Bhoor.	
1	Bhora Khoord		67			67	Re As.P.	Rs As.P.	Re As.P.	Re As.P.	
2	Bhora Kullan	372	535	-86	<b></b>	943					
3	Jeethpore	27	88	5		120		-			
4	Seemolee	76	98	17		191	3 4 2	2 1 6 <u>1</u>	1 10 5		
5	. Allawulpore	142	113	17	•••	272					
6	Gurhee Noabad	27	41		<b></b>	68					
7	Mahomedpore Rai Singh	11	57	3	···	71		,			
8	Moondhbhur	24	77	32		133		-			
	Total, Chuk Koo- dana	679	1,076	110		1,865					

PERGUNNAH
Statement showing profits due to the operation

1.	2.	5.
	Name of Mouzah.	REVENUE ON IRRIGATED AREA.
Number.		Meesun. Roslee. Dakur. Bhcor. Total.
1	Bhora Khoord	Rs As. P. Rs As. P. Rs As. P. Rs As. P 140 7 0
2	Bhora Kullan	1,212 10 0 1,121 3 0 59 8 0 2,398 5 0
3	Jeethpore	88 0 0 184 7 0 8 4 0 280 11 0
4	Secsolee	247 12 0 205 6 0 28 2 0 481 4 0
5	Allawulpore	462 14 0 236 13 0 28 1 0 727 12 0
6	Gurhee Noabad	88 0 0 85 15 0 173 15 0
7	Mahomedpore Rai Singh	35 14 0 119 7 0 4 15 0 160 4 0
8	Moondhbhur	78 4 0 161 6 0 52 14 0 292 8 0
	Total, Chuk Koodana	2,213 6 0 2,255 0 0 181 12 0 4,650 2 (

SHIKARPORE.

of the Eastern Jumna Canal.—(Continued.)

•	6.	·-, · • ·				7.		
Revenu	E RATE PER	UNIRRIGAT	ED ACRE.		REVENUE O	N UNIRRIGA	TED AREA	i <b>a</b>
Meesun.	Roslee.	Dakur.	Bhoor.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
Re As. P.	Rs As. P.	Rs As.P.	Re	Re As. I	P. Rs As. P. 87 4 0	İ	Re ALP	Re As. P. 87 4 0
				484 4	0 696 7 0	48 6 0	·••	1,229 1 0
				35 2	0 114 9 0	6 <b>12</b> 0	140	156 7 Q
1 4 10	4 10 در	1 5 6		98 15	0 127 9 0	<b>22</b> 14 0		249 6 O
				184 14	0 147 2 0	22 14 0	•••	354 14 0
		ļ		85 2	0 53 6 0	***	•••	88 8 0
		,		14 5	0 74 3 0	4 1 0		<b>92</b> 9 0
				31 4	0 100 4 0	48 0 0		17 <b>4</b> 8 0
•••				883 14	0 1,400 12 0	147 15 0		2,432 9 0

PERGUNNAH
Statement showing profits due to the operation

				ient snow				peration
		8.	9.			10.		
	Name of Mouzah.	Difference of Revenue between irrigated and unirrigated rate.	Number of wells closed by Canal.	Twen	TY TWO	ACRES ALL	OWED TO	BACH
Number.		Difference by tween unirrigat	Number of by Cans	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
1	Bhora Khoord	Re As. P.	1		22			22
2	-Bhora Kullan	1,164 4 0			<i></i>	···	<b></b>	***
3	Jecthpore	124 4 0			<b></b>		***	•••
4	Secsolee	231 14 0			<b></b>			
5	Allawulpore ,	872 14 0	·		<b>,</b>			
6	Gurhee Noabad	85 7 D	<u>.</u>		<b></b>	,		
7	Mahomedpore Rai Singh,	67 11 0		<b>,</b>				
8	Moondhbhur	) ]18 0 0			<i>,</i>			
	Total, Chuk Koodana	2,217 9 0	1		22			22

SHIKARPORE.

# of the Eastern Jumna Canal .- (Continued.)

		11.			19.							
Reve	nub deriya	BLE FROM	WELL IR	rigation.	REVEN	UE ON WILL-I	RRIGATEI	AREA BY	DRY RATE.			
Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Mecsun.	Roslee.	Dakur.	Bhoor.	Total.			
Rs As.P.	Re As. P.	Rs As.P.	Re As.P.	Re As. P.	Rs-As.P.	Re- As. P.	Rs As.P.	Rs-As,P.	Re As. P.			
	46 2 0			46 2 0	<b></b>	28 10 0			28 10 0			
		•••	•••			•••			***			
•••	···			·					•••			
•••	•••			•••				***	<b></b>			
•••			•••			<b></b>			***			
•••	·					***						
			···			<b></b>		•••	•••			
	<b></b>			<b></b>		<b></b>			144			
	46 2 0			46 2 0		28 10 0			28 10			

( 258 ) PERGUNNAH SHIKARPORE.

Statement showing profits due to the operation of the Eastern Jumna Canal.—(Concluded.)

					13.	14.	15.
Number.	Na	me of Mouzal	<b>h.</b>		Difference of revenue on area irrigated by wells.	Actual profits due to canal.	Remarks.
1	Bhora Khoord			•••	Rs. As. P.	Rs. As. P. 35 11 0	
2	Bhora Kullan	*40	•••		•••	1,164 4 0	
8	Jeethpor e	***	-	•••	•••	194 4 0	
4	Seamolee	***	***	٠.	•••	231 14 0	
8	Allawulpore	***	MA.		•••	872 14 0	
6	Gurhee Noabad	• •••	<b></b>			85 7 O	
7	Mahomedpore l	Rai Singh	<b></b>	•••	•••	67 11 0	
8	Moondhbhur	•••		6.0.3		118 0 0	
		Total, Chuk	Koodana	•••	17 8 0	2,200 1 0	Re-2,277 allowed as canal profits.

S. N. MARTIN,

Collector.

#### Abstract of Statement A.

B.

					<del></del>		
1.	2.	3.	4.	5.	6.	7.	8.
Number.	Pergunnah.	Name of Mouzah.	Area irrigated by canal.	Difference of revenue be- tween irrigated and un- irrigated rates.	Difference of revenue on area irrigated by wells.	Actual profits due to canal.	Remarks.
1		Bhora Khoord	67	58	17	36	Allowed Rs. 86 as canal profits.
. 2		Bhora Kullan	943	1,164		1,164	<b>Ditto</b> 1,160 do.
3		Jeet':pore	120	124	•••	124	Ditto 128 do.
4	SHIKARPORE,	Seesolee	191	232		232	Rs, 308 allowed as profits due to canal.
5	SHIR	Allawulpore	272	373	<b></b>	373	Rs. 371 ditto ditto.
6		Gurhee Noabad	68	85	<b></b>	85	Ra. 83 ditto ditto.
7		Mahomedpore Rai Singh.	71	68	· 	68	Rs. 67 ditto ditt.).
8		Moondhbhur	133	118	•••	118	Rs. 124 ditto ditto.
		Total, Chuk Koodana	1,865	2,217	17	2,200	Rs 2,277 allowed as canal profits.

Average depth of water, 32 feet 7 inches. Kutcha wells are not known on the opposite side of the "Hindun;" consequently I have not thought it just to make any calculation based upon possible wells, seeing that none can be traced.

S, N. MARTIN,

PERGUNNAH
Statement showing profits due to the

1.	2.					3.		
			•		Area iri	RIGATED BY CA	NAL.	
Number.	Name of M	ouzah.		Meesun.	Roslee.	Dakur.	Bhoor.	Total.
1	Atalee	•••		11	6	,	٠	17
2	Boodeena Kulan			347	580	26	•••	908
3	Peepulhaira	•••		816	195	23		534
4	Jusoee			28	175	. 8		206
5	Churolee	•••			2	•••	***	2
6	Chuttaila	•••	•••	156	521	52	•••	¹ 729
7	Sonhujnee	•••	•••	289	<b>22</b> 8	8	•••	525
8	Salahkharee	•••	•••	259	. 151	64	•••	474
9	Aleepoora Kullar	ı	•••	250	164			414
10	Kumrooddeen Nu	uggur	•••		5			5
11	Lalookharee		•••	62	122	20	***	204
12	Laburda	•••	•••	168	261	87		516
13	Muhmedpore Ma	andun		25	22	1	***	48
14	Nugla Puthora	•••	•••	55	195	6		256
	Total, Ch	nuk Kooda	na	1,966	2,577	290		4,833
1	Tahurpore, Chu	ık Jhukwa	da	3	44			47
	Gı	BAND TOT	AL	1,969	2,621	290		4,880

BUGRAH.
operation of the Eastern Jumna Canal.

		4.				5.		
REVENT	JE RATE P.	BR IRRIGA	TED ACRE.		Revenu	ON IRRIGATE	D AREA.	
Meesun.	Roslee.	Dakur.	Bhoor.	Meesun.	Roalee.	Dakur.	Bhoor.	Total.
		-		44 9 0	15 12 0	***		60 5 0
			•	1,405 6 0	1,388 8 0	<b>53 11 0</b>	•••	2,847 9 0
				1,279 13 0	510 14 0	47 8 0	•••	1,888 3 0
				113 6 0	458 7 0	6 8 0	•••	<b>578</b> 0 0
				•••	g 4 0	•••		5 4 0
				631 18 0	1,364 15 0	107 6 0		2,104 2 0
4 0 9	2 9 11	2 1 0}	•••	1,170 8 0	597 5 0	16 8 0		1,784 5 0
			·	1,049 0 0	395 9 0	183 8 0		1,576 12 0
				1,012 9 0	429 10 0	<b>300</b>	,,,	1,442 8 0
				•••	13 2 0	•••		13 2 0
		,		251 2 0	819 10 0	41 5 0		612 1 0
				680 7 0	683 19 0	179 11 0		1,548 14 0
				101 4 0	57 10 O	210	••• '	160 15 0
				222 12 0	510 14 o	12 6 0	•••	<b>746</b> 0 0
				7,962 9 0	6,751 4 0	<b>598 14</b> 0		15,812 11 0
3 O 8	1 15 9	•••		9 1 0	87 7 0		·	<b>96</b> 8 Q
				7,971 10 0	6,888 - 11 0	598 14 0		15,409 8 0

PERGUNNAH
Statement showing profits due to the operation

				6	·						
			REVENUE RATE PRE UNIERIGATED ACRE.								
Number.	Name of Mouzah.		Meesun.	Roalee.	Dakur.	Bhoor.					
1	Atalee										
2	Boodeena Kulan										
3	Peepulhaira										
4	Jusoee										
5	Churolee										
6	Chuttaila										
7	Sonhujnee		1 10 14	1 10 04	1 10 10 <u>1</u>	<b></b>					
8	Salahkharee										
9	Aleepoora Kullan				•						
10	Kumrooddeen Nuggur										
11	Lalookharee										
12	Laburda										
13	Muhmedpore Mandun										
14	Nugla Puthora										
	Total, Chuk Koodana	•••									
1	Tahurpore, Chuk Jhukwala	•••	1 5 6%	1 5 64							
	GRAND TOTAL		•••								

BUGRAH.

of the Eastern Jumna Canal.—(Continued.)

		7.			8.	9.		10	•	
	REVENUE	ON UNIRRIGATE	D AREA.		n itri.	canal.	TWENTY-TWO ACRES			
Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Difference of revenue between irrigated rates.	Number of wells closed by es	Mcceun.	Dakur.	Bhoor.	
17 14 (	9 12 0			27 10 0	<b>32</b> 11 0					
564 9 0	862 5 0	43 11 0		1,470 9 0	1,377 0 0	13	135 20	7   10	38	
514 <b>9</b> 0	817 4 0	88 10 0	•••	870 0 0	968 3 0			.		
45 9 0	284 12 0	5 1 0	•••	335 6 0	242 10 0	6	18 111	2 2	18	
•••	8 4 0		***	8 4 0	2 0 0			.		
253 13 0	847 10 0	87 6 0	•••	1,188 13 0	915 5 0	8	66 220	22	30	
470 3 0	870 15 0	18 7 0	•••	854 9 0	929 12 0					
421 6 0	245 11 0	107 8 0		774 9 0	802 3 0					
<b>40</b> 6 12 0	266 13 0			673 9 0	768 10 0	4	66 44		110	
	8 2 0			8 2 0	5 0 0					
100 14 0	198 8 0	33 10 0		333 0 0	279 1 0					
273 5 0	424 10 0	146 2 0		844 1 0	699 13 0	1	14 15	15	44	
40 11 0	<b>35 13 0</b>	1 11 0		78 3 0	82 12 0					
89 8 0		10 1 0		416 13 0 7,878 8 0 7	1	4	ł	2	88	
JU 10 U	#910# II U	487 3 0	•••	1,010 8 0 1	,πυπε δ U   δ	30		31	1,004	
4 0 0	59 5 0			63 5 0	83 8 0					
02 10 0	4,252 0 0	487 3 0		7,941 13 0 7	467 6 0	36 31	8 665	51	1,034	

PERGUNNAH
Statement showing profits due to the operation

		_	;		11.		
			Ri	IVENUS DERIVA	BLE PROM WELI	L IRRIGATION	
Number.	Name of Mousah.		Mcesun.	Rosloe.	Dakur.	Bhoor.	Total.
1	Atalee					440	
2	Boodeena Kulan		546 19 0	542 5 0	20 10 0	***	1,109 11 0
3	Peepulhaira	***	···	•	***	***	
4	Jusoee	***	72 14 0	293 7 0	4 2 0	***	370 7 0
,5	Churoles			41.0	,	1++	*
6	Chuttaila		<b>367</b> 5 0	576 6 0	45 7 0	***	889 2 0
7	Sonhujuee	•••		***		Pr II	***
8	Salahkharee	***	•••	-		•••	
9	Aleopoora Kullan	•••	267 5 0	115 4 0		•••	382 9 0
10	Kumrooddeen Nuggur	•••	<b>6</b> 71	110		444	1+4
11	Lalookharee	***	***	741		490	•••
12	Laburda	***	56 11 0	89 5 0	30 15 0	***	126 15 0
18	Muhmedpore Mandun	,			***	**1	
14	Nugla Puthora	***	76 15 0	175 8 0	4 2 0	***	256 9 O
	Total, Chuk Koodana	***	1,287 14 0	1,749 8 0	105 4 0	***	8,186 5 0
1	Tahurpore (Chuk J	huk-		*93		334	
	GRAND TOTAL	•••	1,987 14 0	1,742 3 0			8,185 5 0

BUGRAH.

of the Eastern Jumna Canal.—(Concluded.)

		12.			13.	14.	15.
Rever	NUE ON WELL II	RRIGATED AREA	A BY DRY	RATES.			
Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Difference of Revenue on area irri- gated by wells.	Actual profits due to canal.	Remarks.
•••			***			32 11 0	
219 10 0	336 13 0	16 18 0		573 4 0	536 7 0	840 9 0	
•••						968 3 0	]
29 5 0	182 4 0	3 6 0		214 15 0	155 8 9	87 2 0	
•••						200	
107 6 0	857 15 0	<b>3</b> 6 15 0		502 4 0	386 14 0	528 7 0	
•••		•••				929 12 0	
•••			•••			802 3 0	
107 6 0	71 9 0		•••	178 15 0	203 10 0	565 0 0	
		,	***	•••		500	
•••		•••			·	279 1 0	
22 12 0	24 6 0	25 3 0		<b>72</b> 5 0	54 10 0	645 3 0	
		•••		•••		82 12 0	
30 15 0	109 0 0	3 6 0		143 5 0	113 4 0	215 15 0	
517 6 0	1,081 15 0	85 11 0		1,685 0 0	1,450 5 0	5,983 11 0	
•••					<b></b>	38 3 0	
<i>5</i> 17 6 0	1,081 15 0	85 11 0		1,685 0 0	1,450 5 0	6,017 1 0	Actual profit allowed Rs. 3,227: see abstract.

S. N. MARTIN,

Collector.

#### Abstract Statement A.

В.

<u>'</u>							
Number.	Pergunnah.	Name of Mouzah.	Area irrigated by Canal.	Difference of revenue between irrigated and unirrigated rates.	Difference of revenue on area irriguted by wells.	Actual profits due to canal.	Remarks.
1	ſ	Atalee	17	<b>3</b> 3	•••	33	No reduction necessary.
2		Boodeena Kulan	903	1,377	536	841	Rs. 840 allowed.
3		Peepulhaira	534	968		968	Rs. 200 only allowed; the revised jumma moderate.
4	Ì	Jusoee	206	242	155	87	Rs. 87 allowed.
5		Churolee	2	2		2	No deduction necessary.
6		Chuttaila	729	915	387	528	Rs. 300 allowed.
7		Sonhujnee	525	930	•••	930	Rs. 500 allowed.
8		Salahkharee	474	802		802	Rs. 400 do.
9		Aleepoora Kullan	414	769	204	<b>\$</b> 65	Rs. 350 do.
10	Втопан.	Kumrooddeen Nuggur	5	5		5	No reduction necessary.
11	B.	Lalookharee	204	279		279	Rs. 200 allowed.
12		Laburda	516	700	55	645	Rs. 200 do.
13		Muhmedpore Mandun	48	83		83	Rs. 83 do.
14		Nugla Puthora	256	329	118	216	Rs. 150 do.
		Total, Chuk Koodana	4,833	7,434	1,450	5,984	
1		Tahurpore (Chuk Jhukwala)	47	33		<b>83</b>	No reduction necessary; revised assessment very moderate.
		GRAND TOTAL	4,880	7,467	1,450	6,017	Rs. 3,227 allowed altogether, as a deduction on account of canal profits.

Average depth of water in this pergunnah is between 23 and 24 feet from surface; kutcha wells can be dug in a few places, but they are not customary.

S. N. MARTIN,

Collector.

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#### PERGUNNAH JHINJHANA.

# Statement showing Profits due to the operation of the Eastern Jumna Canal.

1.	2.			3.				4.		
		AR	SA IRRI	GATED 1	BY CA	NAL.	Revenui	RATE PER	IRRIGATE	D ACRE.
No.	Name of Mouzah.	Meesun.	Rosles.	Dakur.	Bhoor.	Total.	Meesun.	Roslee.	Dakur.	Bhoor.
							Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.
1	Ambehta	76	279	83		438	h			
. 3	Bhatoo	46	419	26		491	i i		•	
3	Pelks	22	176	56		254				
4	Peer Khers			8		3	·			
5	Pindoora	6	14	1		21				
6	Tana	86	181	162		429				
7	Tuprana Afghanan	8	157	72		237				1
8	Tuprana Jatan	28	145	27		200				
9	Tuprana Goojran		29	6		85		i		
10	Hussunpoor	2	21	2		25				į
11	Doola Kheree	188	398	65		651	3 12 0	1 8 4	1 8 8	0 13 11
12	Sumbhalka	22	75	7		104				
13	Kirarwa	56	198	20		184				
14	Kheirkee	81	182	77	4	294				
16	Khera Bhaoo	35	73	39		147				1
16	Malaindce	26	158	2		186				1
17	Nownegles	97	146	13	8	259	11			
18	Gurhee Meean Bhaee Khan		20	2		22				
19	Poor	. 8	14	2		24	] [			
20	Rajhur	9	83	17		109	IJ			
			<b> </b> -		l					
	Total, Chuk Bhainswal,	746	2,678	682	7	4,113	•••			
1	Rahutpoor, Chuk Fukhunpore	35	141	98		974	2 1 10	1 6 4	1 9 1	
1	Imamnuggur		78	70	44	192	)			
2	Jhinjhana	•••	70	71		141				ŀ
8	Durgahpoor	4	120	12	18	149	2 15 94	189	189	1 4 51
4	Rusaqnuggur	2	40	122	11	175				•
5	Hoshungpoor	•••	15	10	40	94	J			
	Total, Chuk Chound- haree	6	358	285	102	751				
	GRAND TOTAL	787	8,177	1,065	109	5,138			·	

PERGUNNAH
Statement showing Profits due to the operation

1.	2.			5.								
_			· REVENUE ON IRRIGATED AREA.									
No.	Name of Mousah.	Meesun.	Roslec.	Dakur.	Bhoor.	Total.						
		Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.						
1	Ambehta	285 0 0	425 0 0	127 15 0	•••	887 15 0						
2	Bhatoo	172 8 0	638 5 0	40 1 0		850 14 0						
3	Pelka	82 8 0	268 2 0	86 5 0		<b>43</b> 6 15 0						
4	Peer Khera	<b></b> .	•••	4 10 0		4 10 9						
5	Pindoora	22 8 0	21 5 0	190		45 6 0						
6	Tana	322 8 0	275 12 0	249 12 0		848 0 0						
7	Tuprana Afghanan	<b>3</b> 0 0 0	239 2 0	111 0 0		380 2 0						
8	Tuprana Jatan	105 0 0	220 14 0	41 10 0	•••	367 8 0						
9	Tuprana Goojran		44 3 0	9 4 0	•••	53 7 0						
10	Hussunpoor	780	<b>32</b> 0 0	3 1 0	•••	42 9 0						
11	Dools Kheree	705 0 0	606 5 0	100 3 0		1,411 8 0						
12	Sumbhalka	82 8 0	118 15 0	10 13 0		207 4 0						
1,3	Kirarwa	210 0 0	164 9 0	30 13 O	,	405 6 0						
14	Khairkee	116 4 0	277 4 0	118 11 0	3 5 0	515 8 0						
15	Khera Bhaoo	181 4 0	111 0 0	60 2 0	,	302 9 0						
16	Malaindee	97 8 0	240 11 0	8 1 0	•••	841 4 0						
17	Nownaglee	363 12 0	222 7 0	20 1 0	270	608 11 0						
18	Gurhee Meean Bhace Khan		<b>3</b> 0 8 0	3 1 0		33 9 0						
19	Poor	<b>3</b> 0 0 0	21 5 0	3 1 0	•••	54 6 0						
20	Rajhur	83 12 0	126 0 0	26 0 0		185 12 0						
	Total, Chuk Bhainswal	<b>2,79</b> 7 8 °0	4,078 14 0	1,051 1 0	5 12 0	7,933 3 0						
1	Rahutpoor, Chuk Fukhunpoor	73 15 0	197 4 0	158 11 0		494 14 0						
1	Imamnuggur	•••	119 11 0	107 7 0	56 8 0	283 5 0						
2	Jhinjhana	•••	107 7 0	108 15 0	•••	216 6 0						
3	Durgahpoor	11 15 0	184 2 0	18 7 0	16 10 O	281 2 0						
4	Ruzaqnuggur	600	61 6 0	187 4 0	14 1 0	268 11 0						
5	Hoshungpoor		76 12 0	15 6 0	48 7 0	135 9 0						
	Total, Chuck Chound- haree	17 15 0	<b>549</b> 6 0	437 7 0	180 5 0	1,185 1 0						
	GRAND TOTAL	2,889 6 0	4,825 8 0	1,642 3 0	186 1 0	9,493 12 0						

JHINJHANA.

of the Eastern Jumna Canal.—(Continued.)

6.				7.		
REVENUE RATE PER U	UNIRRIGATED ACRE.	Re	PENUE (	ON UNIRRIGATE	ID ARRA.	
Meesun. Roslee.	Dakur. Bhoor.	Meesun, Ros	ilee.	Dakur.	Bhoor.	Total.
Re- As. P. Re-As. P	ReAs.P. ReAs.P	78 9 0 288	As. P.	Rs. As. P. 81 11 0		Rs- As. P.
		22 12 0 181	3 0 15 0 	25 10 0 55 2 0 2 15 0		506 6 0 259 13 0 2 15 0
		88 15 0 187 8 4 0 162	8 0 2 0 5 0	1 0 0 159 8 0 70 14 0		21 11 0 485 9 0 241 7 0
} 1 0 6 <u>1</u> 1 0 6	0 15 9 0 10 24	30 21	15 0 0 0 11 0	26 9 0 5 15 0 2 0 0		205 0 0 35 15 0 25 12 0
		57 14 0 111	7 0 9 0 11 0	64 0 0 6 14 0 19 11 0		107 3 0 189 4 0
		36 3 0 75 26 14 0 163	3 0 7 0 6 0 15 0	75 13 0 38 6 0 2 0 0	2 9 0   1 15 0	298 10 0 150 0 0 192 4 0 266 0 0
			11 O	2 0 0 2 0 0		22 11 0 . 24 12 0
			13 0			111 14 0
		771 4 0 2,768	·	671 9 0		4,216 1 0
1 3 31 1 3 31	1 7 71		14 0	99 6 0	34 5 0	216 9 0
} 1 1 0   1 1 0	1 6 81 0 12 51 and 2 ch.	4 4 0 127 2 2 0 42	6 0 8 0 8 0 2 0	100 13 0 17 1 0 178 4 0 14 3 0	 10 2 0 8 9 0 26 8 0	175 3 0 158 15 0 926 7 0 93 13 0
		6 6 0 380	6 0	404 11 0	79 8 0	870 15 0
		817 7 0 8,309	6 0	1,220 15 .0	84 0 0	5,431 12 0

PERGUNNAH.
Statement showing Profits due to the operation

1.	2.	8.		9.			10.		
		Bevenue rrigated rrigated		wells canal.	TWENT	r-Two Ace	ES ALLOW	THD TO RAC	H WELL.
No.	Name of Mouzah.	Difference of Revenue between irrigated and unirrigated rates.		of by	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
-		Rs As.	P.						
1	Ambehta	389 4	0	2	8	28	8		44 .
2	Bhatoo	344 8	0	1	2.	19	1.		22
3	Pelka	177 2	0	•••	•••				•••
4	Peer Khera	1 11	0	•••			•••		•••
5	Pindoors	23 11	0	•••	•••		•••		••• .
6	Tana	412 7	0	•••			•••		•••
7	Tuprana Afghanan	188 11	0	•••			•••		•••
8	Tuprana Jatan	162 1	0	•••			•••		•••
9	Tuprana Goojran	17 8	0	•••					•••
.10	Hussunpoor	16 13	0	•••					٠
11	Dools Kheree	741 11	0	3	19	40	7		66
12	Sumbhalka	100 1	0	•••					•••
13	Kirarwa	216 2	0	1	7	13	2		22
14	Khairkee	216 14	0	2	5	27	11	1	44
15	Khera Bhaoo	152 9	0	1	5	11	6		22
16	Malaindee	149 0	0						•••
17	Nownaglee	342 11	0	1	8	13	1		22
18	Gurhee Meean Bhaee Khan,	10 14	0					•••	•••
19	Poor	29 10	0					•••	•••
20	Rajhur	73 14	0						
					<u> </u>			-	
	Total, Chuk Bhainswal	3,717 2	0	11	54	151	36	1	242
1	Rahutpoor, Chuk Fukhunpoo	80 2	0						
1	Imamnuggur	66 12	0	2		18	16	10	44
2	Jhinjhana	41 8	0	2		22	22		44
3	Durgahpoor	72 3	0	9	1	35	4	4	44
4	Ruzaqnuggur	. 42 4	0	6	1	31	92	8	132
5	Hoshungpoor	41 19	0						
	Total, Chuk Choundharse	264 5	0	19	2	106	184	22	264
	GRAND TOTAL	. 4,061	6 0	23	56	257	170	23	506

of the Eastern Jumna Canal.—(Continued.)

REVENUE DERIVABLE FROM WELL IRRIGATION.  REVENUE ON WELL-IRRIGATED AR	RRA BY D	RY RATES.
Meesun. Roslee. Dakur. Bhoor. Total. Meesun. Roslee. Dakur.	Bhoor.	Total.
Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P. Rs. As. P.	Rs, As.P.	Rs. As. P.
30 0 0 42 11 0 12 5 0 85 0 0 8 4 0 28 15 0 7 14 0		45 1 0
7 8 0 28 15 0 1 7 0   38 0 0 2 1 0 19 10 0 1 0 0	•••	22 11 0
	***	
	***	
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	<b></b> ,	
	•••	
	***	
71 4 0 60 15 0 10 13 0   143 0 0 19 10 0 41 6 0 6 14 0	***	67 14 0
		•••
26 4 0 19 13 0 3 1 0 49 2 0 7 4 0 13 7 0 2 0 0	•••	22 11 0
18 12 0 41 2 0 16 15 0 0 13 0 77 10 0 5 3 0 27 15 0 10 13 0	0 10 0	44 9 0
18 12 0 16 12 0 9 4 0 44 12 0 5 3 0 11 6 0 5 14 0	***	29 7 0
	***	
30 0 0 19 13 0 1 9 0   51 6 0 8 4 0 18 7 0 1 0 0	•••	22 11 0
	•••	
	•••	
202 8 0 230 1 0 55 8 0 0 13 0 488 14 0 55 13 0 156 2 0 35 7 0	0 10 0	248 0 0
	•••	
		40.11.0
27 10 0   24 8 0   12 12 0   64 14 0     19 2 0   22 12 0		l
33 13 0 33 13 0 67 10 0 23 6 0 31 2 0 30 0 53 11 0 6 2 0 5 2 0 67 15 0 1 1 0 27 3 0 5 11 0		54 8 0
		i
3 0 0 47 9 0 141 3 0 10 4 0 202 0 0 1 1 0 32 15 0 130 10 0	6 4 0	l
6 0 0 162 11 0 205 10 0 28 2 0 402 7 0 2 2 0 112 10 0 190 8 0	17 8 0	322 2 0
208 8 0 392 12 0 361 2 0 28 15 0 991 5 0 57 15 0 268 12 0 225 10 0	17 13 0	570 2 0

1 5 970 HINJHANA.

Statement showing Profits due to the Upor action of the Eastern Jumna Canal.—(Concld.)

1.	2.		13.			4.		
No.	Name of Mouzah.		Difference of Revenuc on area irrigated by wells.			canal.		Remarks.
		Rs.	As.	Р.	Rs.	Aв.	P.	,
1	Ambehta	. 29	15	0	349	0	0	
2	Bhatoo	. 15	5	0	329	0	0,	
3	Pelks				177	O'	0	
4	Peer Khera	.	•••		2	0	0	
5	Pindoora	.			24	0	0	_
6	Tana	.	•••		412	0	0	
7	Tuprana Afghanan	.			139	0	0	
8	Tuprana Jatan	.	•••		162	0	0	
9	Tuprana Goojran	.			17	0	0	•
10	Hussunpoor	.  '			17	0	0	
11	Doola Kheree	75	2	0	667	0	0	
12	Sumbhalka	•			100	0	0	
13	Kirarwa	. 26	7	0	189	0	0	
14	Khairkee	33	1	0	184	0	0	
15	Khera Bhaoo ,	. 22	5	0	130	0	0	•
16.	Malaindee		•••		149	0	0	
17	Nownagice	28	11	0	314	0	0	·
18	Gurhee Meean Bhaee Khan				11	0	0	
19	Poor				30	0	0	
20	Rajhur .,	.	•••		74	0	0	
	Total, Chuk Bhainswa	24	0 14	. 0	3,476	0	0	
1	Rahutpoor, Chuk Fukhunpoor				80	0	0	,
1	Imamnuggur .,	. 15	3	0	52	0	0	
2	Jhinjhana	. 13	2		28			
3	Durgahpoor	20	14	0	<i>B</i> 1			
4	Ruzaqnuggur	. 31	2	0	11			
5	Hoshungpoor	.	٠,٠		42			
	Total, Chuk Choundharee	. 80	5.	0	184			
	Grand Total	321	8	0	*3,740	0	0	* The revised jumms of these canal- irrigated villages is Rs. 31,085. Allowed Rs. 2,767, profits due to canal.

S. N. MARTIN, Collector.

### Abstract of Statement A.

B.

	1		<del></del>	<del></del>	1		<del> </del>
1.	2.	3.	4.	б.	6.	7.	8.
Number.	Pergunnah.	Name of Mouzah.	Area irrigated by canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on arca irriga-	Actual profits due to canal.	Remarks.
1	۱ (	Ambehta	438	389	40	100	This is the abstract of the Statement A., and is as
2		Bhatoo	491	844	15	300	correct as can be made out.  First of all there is the
3		Pelka	254	177	•••	177	canal-irrigated area, and
4		Peer Khera	3	2		•••	the difference deduced be- tween irrigated and unirri-
5		Pindoora	21	24	•••	•••	gated revenue rates then we come to the number of wells
6		Tana	429	412		412	thrown out of use by the canal,—twenty-two acres
7	¦	Tuprana Afghanan	237	139		140	comprising the various kinds of soil being allowed
8		Tuprana Jatan	200	162		161	for each well, the difference between irrigated and un-
9		Tuprana Goojran	35	17		•••	irrigated rates is computed upon the area irrigated by wells, and this is deducted
10		Hussunpoor	25	17		•••	from the whole difference.  The balance gives the net
11		Dools Kheree	651	749	75	275	profits due to the canal, and is here shown in
12		Sumbhalka	104	100		100	column 7.
18		Kirarwa	184	216	27	144	
. 14		Khairkee	294	217	83	200	
15		Khera Bhaoo	147	152	22	130	
16	MA.	Malaindee	186	149		150	
17	KJHANA.	Nownaglee	259	843	29	200	
18	JHIN	Gurhee Meean Bhace Khan,	22	11			
19		Poor	24	30			
20		Rajhur	109	74		75	
		Total, Chuck Bhainswal	4,113	3,717	241	3,476	
1		Rahutpoor, Chuk Fukhunpoo	274	. 80		50	
1		Imamnuggur	192	67	15	52	Allowed Rs. 52.
2		Jhinjhana	141	41	13	28	No deduction necessary.
3		Durgahpoor		72	21	51	Allowed Rs. 50.
4		Ruzaqnuggur	175	42	31	11	No deduction necessary.
5		Hoshungpoor	94	42		42	Allowed Rs. 51.
				-			
		Total, Chuk Choundharee	711	264	80	184	
		GRAND TOTAL	5,138	4,061	321	3,740	Allowed Rs. 2,767, pro- fits due to canal.

The above account has been checked and modified under the instruction of the Senior Member, Board of Revenue, Mr. R. Money.

The average depth of water is 16 feet; kucha wells not known; the natural capability of each canal-irrigated village has been closely tested.

S. N. MARTIN,

Collector.

PERGUNNAH
Statement showing Profits due to the

					·				
1.	2	<b>i.</b>			3.				
				Area iri	REVENUE RATE				
	Name of	Mouzah.							
Number.			Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Meesun.	Roslee.
						,		Rs As. P.	Re As. P.
1	Buralece		469	107	22	1	599	)	
2	Buralsa		31	173	12	2	218		
3	Barh		42	111	6	•••	159		
4	Bulwa Kheree		436	236	39		711		
5	Pilkhunee		53	143	42		238		
6	Tanda		94	129	54	6	283		
7	Doodhlee		275	210	69		554	2 13 13	1 12 1
8	Ronee Hurjeep	00 <b>r</b>	2 <b>9</b> 5	60	79		434		
. 9	Aleepoor		88	75	2		165		
10	Alumgeerpoor		34	97	24		155		
11	Giyana Muzra		116	317	64	.3	500		
12	Mungunpoor		74	119	15		208		
13	Hurnaikee		64	45	82		151	J	
	Total, Chul	Kesoree,	2,071	1,822	510	12	4,415	н.	
1	Akburgurh		1	26			27	7	
2	Bhumbel <b>s</b>		24				24		
3	Peepulsan			30			80		, ,
4	Kanerharee		32	131	63		226	2 4 4	1 9 51
5	Goonyajooddee	·	10	19	3		32		
6	Niamoon		9	79	•••	28	111	]	
	Total, Chuk	k Jukhwala	76	285	66	23	450.		
	GRAND T	'OTAL	2,147	2,107	576	85	4,865		
			1	·					

CHURTHAWUL.

operation of the Eastern Jumna Canal.

4.			5.								
PER IRRIGATED	) ACRE.	Revenue on irrigated area.									
Dakur.	Bhoor.	Mecsun.	Roslee.	Dakur.	Bhoor.	Total.					
Re As. P.	Re As. P.	Rs- As. P.	Rs As. P. 187 13 0	Rs- As. P. 31 15 0	Rs. As. P. 0 12 0	Rs- As. P. 1,484 10 0					
		83 9 0	303 10 0	17 7 0	1 8 0	406 2 0					
		113 3 0	194 13 0	8 11 0	•••	316 11 0					
		1,175 2 0	414 2 0	56 10 O		1,645 14 0					
		142 13 0	250 15 0	61 0 0	•••	454 12 0					
		253 5 0	226 6 0	78 7 0	4 9 0	56 <b>2</b> 11 0					
1 7 24	0 12 21	741 4 0	<b>3</b> 68 8 0	100 3 0	•••	1,209 15 0					
		795 2 0	105 5 0	114 12 0		1,015 3 0					
		237 3 0	131 10 0	2 14 0		371 11 0					
•		91 10 0	170 4 0	34 14 0		296 12 0					
		312 11 0	556 5 0	92 15 0	2 5 0	964 4 0					
		199 7 0	208 14 0	21 12 0	•••	430 1 0					
		172 7 0	79 0 0	119 1 0	<b></b>	<b>37</b> 0 9 0					
		5,581 15 0	8,197 9 0	740 9 0	9 2 0	9,529 3 0					
		2 4 0	41 6 0		•••	43 10 0					
		54 5 O		•••		54 5 0					
			47 12 0		•••	47 12 0					
1 1 0	1 5 2	72 7 0	208 8 0	69 5 0	***	350 4 0					
		22 10 0	30 4 0	3 5 0	•••	56 <b>3 0</b>					
		20 6 0	125 12 0		30 7 0	176 9 0					
		172 0 0	453 10 0	72 10 0	30 7 0	728 11 0					
	·	5,753 15 0	.3,651 3 0	813 3 0	39 9 0	10,257 14 0					

PERGUNNAH
Statement showing Profits due to the operation

1.	2.	-			6.			
			Revenu	E RATE PER		Revenue		
Number.	Name of Mouzah.		Meesun.	Roslee.	Dakur.	Bhoor.	Meesun.	Roslee,
1	Buralsee		Re As. P.	Rs As. P.	Re As. P.	Rs. As. P.	Rs As. P.	Rs As. P.
		•••		`				
2	Buralsa	•••					38 14 0	216 15 0
3	Barh						52 11 0	139 <b>3 0</b>
4	Bulwa Kheree						546 11 0	295 15 0
5	Pilkhunee						66 7 0	179 5 0
6	Tanda						117 14 0	161 12 0
7	Doodhlee		}1 4 04	1 4 0	1 1 84	0 11 6	<b>344 13</b> 0	263 5 0
8	Ronee Hurjeepoor						369 14 o	75 4 0
9	Alcepoor	•••					110 6 0	94 1 0
10	Alumgeerpoor	•••					42 10 0	121 10 0
11	Giyana Muzra	•••					145 7 0	397 8 0
12	Mungunpoor	•••					92 13 0	149 4 0
13	Hurnaikee		]				80 4 0	56 7 0
	Total, Chuk Keaoree	•••				.,.	2,596 14 0	2,284 12 0
1	Akburgurh		<u> </u>				1 1 0	28 1 0
2	Bhumbela	•••				:	25 14 0	•••
3	Peepulsan							32 6 0
4	Kanerharce		1 1 3	1 1 3	0 14 41	0 13 6	34 8 0	141 4 0
5	Goonyajooddee						10 13 0	20 8 0
6	Niamoon						9 11 0	85 3 0
	Total, Chuk Jukhwala	•••				•••	81 15 0	107 6 0
	GRAND TOTAL			···			2,678 13 0	2,592 2 0

CHURTHAWUL.
of the Eastern Jumna Canal.—(Continued.)

			8.	9.			10.		
7.									
ON UNIRRIGAT	ED AREA.		between	d by Canal.	TWENTY-TWO ACRES ALLOWED TO EACH WELL.				
Dakur.	Bhoor.	Total.	Difference of Revenue between irrigated and unirrigated rates.	Number of wells closed by Canal.	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.						
23 13 0	0 11 0	746 13 0	737 13 0	12	207	47	10		264
13 0 0	170	270 4 0	135 14 0	1	3	18	1	•••	22
6 8 0	<b></b>	198 6 0	118 5 0					•••	•••
42 3 0	•••	884 13 0	761 1 0						•••
45 7 0	•••	291 3 0	163 9 0	4	20	53	15		88
58 7 0	4 5 0	342 6 0	220 5 0	1	8	10	4	•••	22
74 10 O	•••	682 12 0	527 3 0	1	. 11	8	3		22
85 8 0		5 <b>3</b> 0 10 0	484 9 0	4	60	12	16		88
2 3 0		206 10 0	165 1 0						•••
26 O O		190 4 0	106 8 0						•••
69 4 0	2 3 0	614 6 0	349 14 0	2	10	28	6	•••	44
16 4 0	•••	258 5 0	171 12 0	1	8	12	2		22
88 12 0		225 7 0	145 2 0					•••	•••
551 15 0	8 10 0	5,442 3 0	4,087 0 0	26	327	188	57		572
	•••	29 2 0	14 8 0	1	1	21			22
		25 14 0	28 7 0						•••
		32 6 0	15 6 0				•••		•••
56 11 O	<b>.</b>	232 7 0	117 13 0	6	19	76	37		132
2 11 0		34 0 0	22 8 0	1	7	13	2		22
	19 7 0	114 5 0	62 4 0				•••		•••
59 6 0	19 7 0	468 2 0	260 9 0	8	27	110	39		176
611 5 0	28 1 0	5,910 5 0	4,347 9 0	34	354	298	96		748

PERGUNNAH
Statement showing Profits due to the operation

1.	2.		11.									
		-	Rı	EVENUE DERIVA	ABLE FROM WI	ELL IRRIGAT	ion.					
Number.	Name of Mouzah.		Mecsun.	Roslec.	Dakur.	Bhoor.	Total.					
			Rs As. P.	Rs As. P.	Rs As. P.	Rs As P.	Re-As. P.					
1	Buralsee	"	557 15 0				654 15 0					
2	Buralsa	•••	8 1 0	31 9 0	1 7 0	·	41 1 0					
3	Barh											
4	Bulwa Kheree						•••					
5	Pilkhunee		53 15 0	93 0 0	21 13 0		168 12 0					
6	Tanda		21 9 0	17 9 0	5 13 0		44 15 0					
7	Doodhlee		29 10 0	14 1 0	4 6 0		48 1 0					
8	Ronee Hurjecpoor		161 12 0	21 1 0	23 4 0		206 1 0					
9	Aleepoor											
10	Alumgeerpoor			•••								
11	Giyan <b>a Muz</b> ra		26 15 0	49 2 0	8 11 0		84 12 0					
12	Mungunpoor		21 9 0	21 1 0	2 14 0	··· .	45 8 0					
13	Hurnaikee		•••	•••	•••	***	•••					
	Total, Chuk Kesorce		881 6 0	329 15 0	82 12 0		1,294 1 0					
1	Akburgurh		2 4 0	33 7 0			35 11 0					
2	Bhumbels		•••		•••							
3	Peepulsan											
4	Kanerharce		43 0 0	121 0 0	40 12 0		204 12 0					
5	Goonyajooddee		15 14 0	20 11 0	2 3 0		38 12 0					
6	Niamoon	•••			<i></i>		,					
	Total, Chuk Jukhwala		61 2 0	175 2 0	42 15 0		279 3 0					
	GRAND TOTAL		942 8 0	505 1 0	125 11 0		1,573 4 0					

CHURTHAWUL.

of the Eastern Jumna Canal.—(Concluded.)

		12.			18.	14,	15.
REVEN	TUE ON WELL I	ERIGATED ARE	A BY DRY	RATES.			
Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Difference of Revenue on area i r ri- gated by wells.	Actual pro- fits due to Canal.	Remarks.
Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	
259 9 0	58 15 0	10 13 0		<b>329</b> 5 0	325 10 0	412 3 0	
3 12 0	22 9 0	1 1 0		27 6 0	13 11 '0	122 3 0	
***	•••	•••				118 5 0	
	•••	•••		· ···	· · · · · ·	761 1 0	
25 1 0	66 7 0	16 4 0		107 12 0	61 0 0	102 9 0	•
10 1 0	12 9 0	4 5 0		26 15 0	18 0 0	202 5 0	,
13 13 0	10 1 0	3 4 0		27 2 0	20 15 0	506 <b>4</b> o	
75 4 0	15 1 0	17 5 0		107 10 0	98 7 0	386 2 0	
* •	•••	•		•••		165 1 0	
***	•••	••• ·		•••	•••	106 8 0	
12 9 0	35 2 0	6 8 0	<b></b> ·	54 3 0	30 9 0	319 5 0	
10 1 0	15 1 0	2 3 0	<b></b> ´	27 5 0	18 3 0	153 9 0	
•••	<i>t.</i> ,	•••		•••		145 2 0	
410 2 0	285 13 0	61 11 0		707 10 0	586 7 0	3,500 9 0	
1 1 0	22 10 0			23.11 0	12 0 0	2 8 0	
	•••	•••		<b>'</b>	·	28 7 0	
<b>,</b>	•••	,		•••		15 6 0	
20 8 0	81 15 0	33 4 0	•••	135 11 0	69 1 0	48 12 0	
7 9 0	14 0 0	1 13 0	•	23 6 0	15 6 0	6 13 0	
			•••	•••		62 4 0	
29 2 0	118 9 0	35 1 0		182 12 0	96 7 0	164 2 0	
439 4 0	354 6 0	96 12 0		890 6 0	682 14 0	3,664 11 0	Allowed o

# Abstract of Statement A.

1.	2.	3.		4.	. 5. 	6.	7.	8.
Number.	Pergunnah.	Name of Mouzah.		Arca irrigated by Canal.	Difference of Revenue be- tween irrigated and un- irrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Remarks.
1	,	Buralsee		599	Rs. 738	Rs. 326	Rs. 412	A deduction of Rs 300 might be allowed for an assessment independent of canal.
2		Buralsa		218	136	14	122	Revised demand not at full; half assets; Re 50 allowed.
3		Barh		159	118		118	Kutcha wells can be dug; jumma not full; half assets, Re 80 allowed.
4		Bulwa Kheree	•••	711	761		761	Re 250 only allowed as initial jumma, was not full; half assets.
5		Pilkhunee		238	164	61	103	Re 100 allowed.
6		Tanda		283	220	18	202	Re- 200 ditto.
7		Doodhlee	•••	554	527	21	506	Rs-200 allowed; initial jumma not at full; half assets.
8		Ronec Hurjeepoor	•••	, 434	484	98	386	Rs. 150 allowed, having regard to the circumstances of estate.
9		Alecpoor		165	165		165	Rs. 50 allowed, revised jumma being below half assets.
10	WOL	Alumgeerpoor		155	107		107	Ditto.
11	HURTHAWU	Giyana Muzra	•••	500	350	31	319	Ditto.
12	E C	Mungunpoor		208	.172	18	` 154	Rs. 100 allowed.
13		Hurnaikee	•••	191	145		145	Rs. 150 ditto.
		Total, Chuk Kesoree	•••	4,415	4;087	587	3,500	•
1		Akburgurh	•••	27	15	12	•••	No deduction necessary; the canal irrigation trifling.
2	!	Bhumbels		24	28	•••		Ditto.
3		Peepulsan		30	15			Ditto.
4		Kanerharee		226	118	69	49	Rs. 60 allowed.
5		Goonyajooddee		32	22	15	•••	No deduction; irrigation insignificant.
6		Niamoon		111	62	•••	62	Rs. 69 allowed.
		Total, Chuk Jukhwala	•••	450	260	96	164	
		GRAND TOTAL		4,865	4,347	683	3,664	Allowed in all as deduc- tion on account of Canal, Rs. 1,850.

The average depth of water in this pergunnah is 21 feet; kutcha wells are unknown. Were it practicable to make them, I conclude there would have been some visible outward sign-of their existence.

S. N. MARTIN,

Collector.

# PERGUNNAH KYRANAH

# Statement showing Profits due to the operation of the Eastern Jumna Canal.

1.	2.				3.		
				Area ii	RRIGATED BY	CANAL.	
Number.	Name of Mouzah.		Meesun.	Roslee.	Dakur.	Bhoor.	Total.
		<del></del>					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Oonchagaon Burala Bhoora, Puttee Hindooan Ditto, Puttee Mosulmanan Paotee Titurwara Jugunpoor Kyranah, Turf Durmayan Ditto, Turf Sadhoo Ditto, Turf Qasim Ditto, Turf Qanoongoan Kishorepoor Kookurharee Kharee Kufsh Dooz Gogwan Laloopoora Kyranah, Mehal Muzbootta		30 31 19 29 75 3 4 7 52 11 35 39 	613 194 392 433 158 666 79 299 418 301 417 340 4 56 590 24	20 93 9 8 15 5 12 44 79 79 69 24  40 131 	       8	663 318 423 477 248 674 95 350 549 391 521 403 4 118 738 24 279
	is in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	•••					
	Total, Chuk Kyranah	•••	381	<b>5</b> ,229	646	19	6,275
1 2	Puhar Muzra Gundraoon	•••			5 40	6	29 40
	Total, Chuk Rana Muzra	, •••	•••	18	45	6	69
1 2	Boocha Kharee Kyranah, Turf Khoord	•••	:::	69 26	3 2		72 28
	Total, Chuk Punjeeth	•••	•••	95	5	•••	100
1 2 3 4 5 6 7 8	Airtee Boodhopoora Beenra Chuk Aleepoor Titurwara Ditto ditto Kyranah Aleepoor Kundaila Hingoo Kharee Mehal, 13½ biswahs Ditto ditto, 6½ biswahs		88 9 51   159 4 	284 99 230 9 4 161 74 4	51 3 40   72 50 		423 , 111 321 9 4 392 141 4
	Total, Chuk Shamlee	•••	311	869	216	13	1,409
	GRAND TOTAL		692	6,211	912	38	7,853

PERGUNNAH
Statement showing Profits due to the operation

	2.			4.		
1.	2.			<b></b>		
			Rs	EVENUE RATE PE	ER IRRIGATED AC	RE.
Number.	. Name of Mouzah.		Meesun.	Roslee.	Dakur.	Bhoor.
<u>z</u>			Re As. P.	Re As P.	Re As. P.	20 As. P.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Oonchagaon Burala Bhoora, Puttee Hindooan Ditto, Puttee Mosulmanan Paotee Titurwara Juggunpoor Kyranah, Turf Durmayan Ditto, Turf Sadhoo Ditto, Turf Qasim Ditto, Turf Qanoongoan Kishorepoor Kookurharee Kharee Kufsh Dooz Gogwan Laloopoora Kyranah, Mehal Muzbootta		800	200	1 4 2	0 1¥ 6
	Total, Chuk Kyranah	***	•••	•••	444	
1 2	Puhar Muzra Gundraoon	, ,	2 12 10	1 8 31	1 4 2	0 15 6
	Total, Chuk Rana Muzra	•••	<b></b>	***	***	•••
1 2	Boocha Kharee Kyranah, Turf Khoord	•••	3 10 0	2 6 0	1 10 2	0 15 6
	Total, Chuk Punjecth	<b>,</b>		<b></b>	***	····
1 2 8 4 5 6 7 8	Airtee Boodhopoora Beenra Chuk Aleepoor Titurwara Ditto ditto Kyranah Aleepoor Kundaila Hingoo Kharee Mehal, 131 bisw Ditto ditto, 61 bisw	vahs	3 9 6	S 0 0	¶ 14 11 <del>2</del>	1 0 3}
	Total, Chuk Shamlee	•••		<i>,</i> ,,		***
	GRAND TOTAL	•••		***	•••	***

## KYRANAH.

of the Eastern Jumna Canal.—(Continued.)

5.

#### BEVENUE ON IRRIGATED AREA.

Meesun.	Roslee.	Dakur,	Bhoor.	Total.
Re As. P.	Re As. P.	Rs. As. P.	Re As. P.	Re As. P.
90 0 0	1,226 0 0	25 3 0		1,341 3 0
93 0 0 57 0 0	388 0 0 784 0 0	117 4 0 11 6 0	2 15 0	598 4 0 855 5 0
87 0 0	866 0 0	10 1 0	6 12 0	969 13 0
225 0 0 9 0 0	316 0 0 1,332 0 0	18 14 0 6 5 0	•••	559 14 0
12 0 0	158 0 0	15 2 0	:::	1,347 5 0 185 2 0
21 0 0 156 0 0	598 0 0	55 7 0 99 9 0		674 7 0
83 0 0	836 0 0 602 0 0	99 9 0	***	1,091 9 U 734 9 O
105 0 o	834 0 0	87 0 0		1,026 0 0
117 0 0	680 0 0 8 0 0	80 4 0		827 4 0 8 0 0
42 0 0	112 0 0	50 7 0	7 12 0	212 3 0
48 0 0	1,160 0 0	165 2 0	100	1,394 2 0
48 0 0	490 0 0	22 11 0	•••	48 0 0 5 <b>6</b> 0 11 0
1,148 0 0	10,458 0 0	814 4 0	18 7 0	12,433 11 0
	27 5 0	6 5 0 50 7 0	5 13 0	39 7 0 50 7 0
	27 5 0	56 12 0	5 13 0	89 14 0
	163 14 0 61 12 0	4 14 0 3 4 0		168 12 0 65 0 0
•••	225 10 0	8 2 0	•••	233 12 0
316 4 0	852 0 0	98 12 0		1,267 0 0
32 6 0 183 5 0	297 0 0 690 0 0	5 13 0 77 7 0		885 3 Q 950 12 0
	27 0 0			27 0 0
571 7 0	12 0 0 483 0 0	139 6 0		12 0 0 1,193 13 0
14 6 0	222 0 0	96 18 0	18 4 0	346 7 0
 	12 0 0 12 0 0		•••	12 0 0 12 0 0
1,117 12 0	2,607 0 0	418 8 0	18 4 0	4,156 3 0
	13,317 15 0	1,297 <b>5</b> 0	37 8 0	16,913 8 (

PERGUNNAH
Statement showing Profits due to the operation

1.	2.		· 6	•			
		Revenue	RATE PER	UNIERIGAT	TED ACRE.		REVENUE ON
Number.	Name of Mouzah.	Meesun.	Roslee.	Dakur.	Bhoor.	Meesun.	Roslee.
-		Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Oonchagaon Burala Bhoora, Puttee Hindooan Ditto, Puttee Mosulmanan, Paotee Titurwara Jugunpoor Kyranah, Turf Durmayan Ditto, Turf Sadhoo Ditto, Turf Qasim Ditto, Turf Qanoongoau Kishorepoor Kookurharee Kharee Kufsh Dooz Gogwan Laloopoora Kyranah, Mehal Muzbootta,	1 6 0	1 6 0	1 0 2	0 14 11	41 4 0 42 10 0 26 2 0 39 14 0 103 2 0 4 2 0 5 8 0 9 10 0 71 8 0 15 2 0 48 2 0 53 10 0  19 4 0 22 0 0	842 14 0 266 12 0 539 0 0 595 6 0 217 4 0 615 12 0 108 10 0 411 2 0 574 12 0 413 14 0 573 6 0 467 8 0 5 8 0 77 0 0 811 4 0 33 0 0 336 14 0
	Total, Chuk Kyranah		•••	•••	•••.	523 14 O	7,189 14 0
1 2	Puhar Muzra Gundraoon	} 1 5 8§	1 5 81	1 0 2	<b>0</b> 8 0	{ :::	24 6 0
	Total, Chuk Rana Muzra		•••	•••	•••	•••	24 6 0
1 2	Boocha Kharee Kyranah, Turf Khoord	} 1 14 0	1 14 0	1 1 0		{ :::	129 6 0 48 12 0
	Total, Chuk Punjeeth		•••		•••	***	178 2 0
1 2 3 4 5 6 7 8	Airtee Boodhopoora Beenra Chuk Aleepoor Titurwara, Ditto ditto Kyranah Aleepoor Kundaila Hingoo Kharee Mehal, 13½ biswahs Ditto ditto, 6½ biswahs	2 1 2	2 7 2	1 7 1	0 12 0	182 7 0 18 11 0 105 12 0  329 10 0 8 5 0 	588 11 0 205 4 0 476 12 0 18 11 0 8 5 0 333 12 U 153 6 0 8 4 0 8 5 0
	Total, Chuk Shamlee					644 13 0	1,801 6 0
	GRAND TOTAL					1,168 11 0	9,193 12 0

KYRANAH.

of the Eastern Jumna Canal.—(Continued.)

7.			8.	9.			10.		
UNIRRIGATED	AREA.		tveen irri- l rates.	by Canal.	TWENT	Y-TWO ▲CI	RES ALLOW	ED TO EAC	OH WHILL,
Dakur.	Bhoor.	Total.	Difference of Revenue between irri- gated and unirrigated rates.	Number of wells closed by	Meesun.	Roslee.	Dakur.	Bhoor.	Total.
Rs. As. P.	Rs. As. P.	Rs. As. P.	Rs. As. P.						
20 3 0 94 0 0 9 2 0 8 1 0 15 3 0 5 1 0 12 2 0 44 7 0 79 13 0 79 13 0 69 12 0 24 4 0  40 7 0 132 6 0 	2 13 0 6 8 0	904 5 0 403 6 0 577 1 0 649 13 0 335 9 0 624 15 0 126 4 0 465 3 0 726 1 0 508 13 0 691 4 0 545 6 0 5 8 0 144 2 956 9 0 33 0 0 877 1 0	436 14 0 194 14 0 278 4 0 320 0 0 224 5 0 422 6 0 58 14 0 209 4 0 365 8 0 225 12 0 334 12 0 281 14 0 2 8 0 68 1 0 427 9 0 183 10 0	 4 16 7  12 1 5 3 	 4 27 53  5 . 2 3 4  	82 399 113 226 17 85 53 88	2 7 10 33 3 22 9 20	  7     	88 440 176 264 22 110 66
652 13 0	17 11 0	8,384 4 0	4,049 7 0	53	100	1,063	106	7	1,276
5 1 0 40 7 0	3 0 0	32 7 0 40 7 0	7 0 0 10 0 0						
45 8 0	3 0 0	72 14 0	17 0 0						
3 3 0 2 2 0		132 9 0 50 14 0	36 3 0 14 2 0	1		21	1		
5 5 0		183 7 0	50 5 0	1		21	1	<b></b>	22
78 9 0 4 5 0 57 11 0  103 14 0 72 2 0	9 12 0	844 11 0 228 4 0 640 3 0 18 11 0 8 5 0 767 4 0 243 9 0 8 4 0	422 4 0 106 15 0 310 9 0 8 5 0 3 11 0 426 9 0 102 14 0 3 12 0	1   1 	9    18 	30	5    8		44   44 
311 9 0	9 12 0	2,767 8 0	1,388 11 0	2	27	48	13		88
1,015 3 0	30 7 0	11,408 1 0	5,505 7 0	59	127	1,132	120	. 7	1,386

PERGUNNAH
Statement showing Profits due to the operation

1.	. 2,			11.		-
		RE	VENUE DERIVAI	BLE FROM WELI	IRRIGATION.	
Number.	Name of Mouzah.	Mcesun.	Roslee.	Dakur.	Bhoor.	Total.
	,	Re As. P.	Rs As. P.	Rs. As. P.	· Re As. P.	Re As. P.
1 2 3 4 5 6	Oonchagaon Burala Bhoora, Puttee Hindooan Ditto, Puttee Mosulmanan, Paotee Titurwara	 12 0 0 81 0 0 159 0 0	 164 0 0 798 0 0 226 0 0	 2 8 0 8 13 0 12 10 0	 6 18 0	 178 8 0 894 10 0 397 10 0
7 8 9 10 11 12 13	Jugunpoor Kyranah Turf Durmayan Ditto, Turf Sadhoo Ditto, Turf Qasim Ditto, Turf Qanoongoan Kishorepoor Kookurharee	15 0 0 6 0 0 9 0 0 12 0 0	452 0 0 34 0 0 170 0 0 106 0 0	41 10 0 8 13 0 27 12 0 11 5 0		508 10 0 43 13 0 206 12 0 129 5 0
14 15 16 17	Kharee Kufsh Dooz Gogwan Laloopoora Kyranah, Mehal Muzbootta,	6 0 0 	176 0 0 	25 3 0 		207 8 0
	Total, Chuk Kyranah	300 0 0	2,126 0 0	133 10 0	6 13 0	<b>2,566</b> 7 0
1 2	Puhar Muzra Gundraoon	•••		•••	•••	•••
	Total, Chuk Rana Muzra			•••	•••	
1 2	Boocha Kharee Kyranah, Turf Khoord		49 14 0	1 10 0		51 8 0
	Total, Chuk Punjeeth	•••	49 14 0	1 10 0		51 8
1 2 3 4 5 6 7 8	Airtee Boodhopoors Beenra Chuk Aleepoor Titurwara Ditto ditto Kyranah Aleepoor Kundaila Hingoo Kharee Mehal, 133	32 6 0    64 11 0	90 0 0    54 0 0	9 11 0    15 8 0		132 1 6    134 3 6
.9	biswahs Ditto ditto Mehal, 6½ biswahs					
	Total, Chuk Shamlee	97 1 0	144 0 0	25 3 0		266 4
	GRAND TOTAL	397 1 0	2,319 14 0	160 7 0	6 13 0	2,884 3

KYRANAH.
of the Eastern Jumna Canal.—(Concluded.)

		12.			13.	14.	15.
Meesun.	Roslee.	Dakur.	Bhoor.	Total.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	· Remarks,
88. As. P.  5 8 0 37 2 0 72 14 0 6 14 0 2 12 0 4 2 0 5 8 0 2 12 0	Ra. As. P 112 2 0 548 10 0 155 6 0 310 12 0 23 6 0 116 14 0 72 14 0 121 0 0	Rs. As. P 2 0 0 7 1 0 10 2 0 33 6 0 3 0 0 22 4 0 9 2 9 20 3 9	Rs. As. P.	Rs. As. P 120 4 0 599 5 0 238 6 0 351 0 0 29 2 0 143 4 0 87 8 0 143 15 0	Rs. As. P 58 4 0 295 5 0 159 4 0 157 10 0 14 11 0 63 8 0 41 13 0 68 4 0	Rs. As. P.  436 14 0 194 14 0 220 0 0 65 1 0 422 6 0 58 14 0 51 10 0 350 13 0 162 4 0 292 15 0 281 14 0 292 15 0 28 1 4 0 15 0 0 183 10 0	e area has been allowed; twenty two acres is the average irrigable area have noted before, that Mr. Colvin considers unirrigated Messun to be of see especially valuable for the year, manure is applied, and irrigation availtween that and Roalee.
	1,461 10 0	107 2 0	6 8 0	1,712 12 0	<b>453</b> 11 0	7 0 0 10 0 0	as been allowed; twen sted before, that Mr. C stally valuable for the hat and Boalee.
	39 6 0	1 1 0		40 7 o	11 1 0	25 2 0 14 2 0	e the average area h be seen, as I have n ictaun becomes espe distinction between t
18 11 0   37 5 0	89 6 0 62 8 0   87 5 0	7 3 0 11 9 0		88 1 0 86 8 0	44 0 0  48 0 0	378 5 0 106 15 0 310 9 0 8 5 0 3 11 0 378 9 0 102 14 0	Wherever wells have two runs, "dolaws," twice the average area has been allowed from a well with one run only. It will be scen, as I have noted before, that the same kind as unirrigated Roslee; Mecsun becomes especially valuable fable—otherwise he thinks there is little distinction between that and Boslee.
56 0 0	99 8 0	18 12 0		174 4 0	92 0 0	1,296 11 0 4,548 11 0	Totat deduction allowed, Ra. 3,647.

8. N. MARTIN,

Collector.

## Abstract of Statement A.

В.

1.	2.	3.	4.	5.	6.	7.	8.
Number.	Pergunnah.	Name of Mouzah.	Area irrigated by Canal.	Difference of Revenue between irrigated and unirrigated rates.	Difference of Revenue on area irrigated by wells.	Actual profits due to Canal.	Re <b>marks.</b>
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		Oonchagaon Burala Bhoera, Puttee Hindooan Ditto Mosulmanan, Paotee Titurwara Jugunpoor Kyranah, Turf Durmayan Ditto, Turf Sadhoo Ditto, Turf Qasim Ditto, Turf Qanoongoan, Kishorepoor Kookurharee Kharee Kufsh Dooz Gogwan Laloopoora Kyranah Mehal Muzbootta,	663 318 423 477 248 674 95 350 549 391 521 403 4 118 738 24 279	437 195 278 320 224 422 59 209 366 226 335 282 3 68 427 15 184	 58 295 159  158 16 64 42   63 	437 195 220 25 65 422 59 51 361 162 293 282 3 68 364 15	Allowed Rs. 437.  Ditto ,, 195.  Ditto ,, 220.  Ditto ,, 25.  Ditto ,, 65.  Ditto ,, 65.  Ditto ,, 59.  Ditto ,, 51.  Ditto ,, 191.  Ditto ,, 162.  Ditto ,, 110.  Ditto ,, 155.  No deduction necessary.  Allowed Rs. 70.  Ditto ,, 300.  No deduction necessary.  Allowed Rs. 185.
		Total, Chuk Kyranah	6,275	4,050	854	3,196	
1 2		Puhar Muzra Gundraoon	29 40	7 10		7 10	So insignificant, no deduc- tion necessary. No deduction necessary.
; <b>%</b>	KYRANAH	Total, Chuk Rana Muzra,	69	17		17	
1 2	A	Boocha Kharee Kyranah, Turf Khoord	72 28	36 14		25 14	Ditto. Ditto.
		Total, Chuk Punjceth	100	50	- 11	39	
1 2 3 4 5 6 7 8		Airtee Boodhopoora Beenra Chuk Alipoor Titwara Ditto ditto Kyranah Alipoor Kundaila Hingoo Kharee Mehal, 13½ biswahs	423 111 321 9 4 392 141	422 107 311 8 4 426 103	44    48 	378 107 311 8 4 378 103	Allowed Rs. 300.  Ditto ,, 100.  Ditto ,, 200.  No deduction necessary.  Ditto.  Allowed Rs. 300.  Ditto ,, 100.  No deduction necessary for so small a figure.
9		Ditto ditto, 6} biswahs	4	4		4	No deduction necessary.
		Total, Chuk Shamlee	1,409	1,389	92	1,297	
		GRAND TOTAL	7,853	5,506	957	4,549	Total deduction allowed or account of Canal, Rs. 3,647

Depth of water average 7 feet where kutcha wells, though not at 'present in existence, are feasible; a very small deduction has been allowed for Canal profits.

S. N. MARTIN,

Collector.

#### **BETTLEMENT REPORT**

OF THE

# GANGES CANAL TRACT

IN THE

# MUZAFFARNAGAR DISTRICT.

By ALAN CADELL, Esquire,

Late Settlement Officer.

ALLAHABAD:

NORTH-WESTERN PROTINCES AND OUDE GOVERNMENT PRESS.

1878.

• • . 

No.  $\frac{219}{1.99}$ , or 1881.

FROM

### J. S. MACKINTOSH, Esq.,

Secretary to the Board of Revenue, N.-W. P.,

Τo

### R. SMEATON, Esq.,

Offg. Secretary to Government, N.-W. P. and Oudh.

Dated Allahabad, the 28th April, 1881.

Sir.

PARTMENT I. LEERNT OF LAND REVESUE.

Present:

REID, Esq.

Purchapur. Muzaffarnagar. Bhukarheri.

Khatauli, Janesth. Bhuma Sambalhera,

able the Lieutenant-Governor, the final settlement report on the Ganges Canal tract in the Muzaffarnagar district (comprising the parganas named in margin), drawn up by Mr. Alan Cadell, C.S., late Settlement Officer of Muzaffarnagar. Pargana Gurdhanpur, which lies entirely in the Ganges valley, together with the Khadir portions of parganas Purchapur, Bhukarheri and Bhuma Sam-

I AM desired by the Senior Member to submit, for the orders of the Honor-

bhalhera, are not included in the tract reported on.

- Mr. Cadell's report is dated December, 1878. It has not been officially submitted to the Board up to the present date. A copy of the printed report was received from Mr. Cadell on the 12th April, 1879. The Senior Member is anxious to submit to Government a brief review of the report before he vacates his seat on the Board.
- The parganas which have been settled by Mr. Cadell form that portion of the district regarding which Sir William Muir, after consultation with Mr. Inglis (Senior Member of the Board), Mr. Fleetwood Williams and Mr. Court (the retiring and incoming Commissioners of Meerut), Mr. Forbes (Collector and Settlement Officer of Meerut), and Mr. Cadell (Settlement Officer of Muzaffarnagar), arrived at the conclusion that the assessment of the six eastern parganas of the district, settled by Mr. Martin, was inadequate; that the inadequacy existed at the time when the assessment was framed, and that consequently there should be a revision of the Government demand, preceded by a testing and correction of the entries of soil and irrigation. His Honor directed that the new assessment should be based on existing assets and should run for the same period as the present settlement (by which must have been meant the settlement of the rest of the district), so as to expire at the same time with it. The khasrahs prepared by the preceding Settlement Officer, which were believed to be correct as regarded area, but to a certain extent incorrect as regarded soil and irrigation, were to be subjected to a careful revision (Government Resolution, Revenue Department, No. 118, dated 25th March, 1870.) The revision of the assessment of the seven parganas was entrusted to Mr. Cadell, who was transferred for that purpose from the Allahabad Settlement. Mr. Cadell has submitted a very full report of his proceedings. The Senior Member regrets that he is compelled to review them in a very summary mode.
- 4. The tract, settled by Mr. Cadell, may be termed the Ganges and Kali Doab. or the Ganges Canal, tract of the Muzaffarnagar district. It has a length of 34 miles and a varying breadth of from 12 to 26 miles. The area is 569 square miles. Its physical features are fully described in paras. 11-13 of the report. Its chief physical feature is the prevalance of sand, which forbade the use of earthen wells, while the

distance of the water from the surface was so great as to confine irrigation from masonry wells to garden lands. There were no other means of irrigation, there being no jhils in the uplands; only in exceptional cases were ponds used for irrigation. No irrigation was possible from the rivers which ran far below the level of the upland portion of the tract. In such a country canal irrigation could not but effect a vast improvement. The Ganges Canal has fertilized the upland tract, but it has unfortunately, at the same time, deteriorated more or less the lower lands. This evil has been remedied in late years by the abandonment of many of the irrigating channels and by providing permanent means of escape for the surface drainage. The Ganges Canal must also be held answerable for a considerable extension of marsh lands in the valleys of the rivers.

- 5. The country is well provided with means of communication—with a metalled road, a navigable canal, and lately the Sindh, Punjáb, and Delhi Railway running through it. The roads in the interier are in fair order. There are many local markets, the chief of which is the town of Muzaffarnagar, which has risen greatly in importance since the opening of the railway. The population is sufficiently dense on the uplands. The rate per square mile of (a) total area and (b) cultivated and culturable area, ranges from (a) 363 in Bhukarheri to 507 in Khatauli, and (b) from 432 in Bhukarheri to 573 in Khatauli. The agricultural population is estimated at 93,899 and the non-agricutural at 149,518.
- 6. The Chamars form 17·3 per cent. of the population, Játs 7·5 per cent., Brahmans 4·3 per cent., Rajputs are put down at 2·64 and Chauhans at 2 per cent. Nearly one-third of the population are Muhammadans, of whom the great bulk consists of the Nau-Muslim cultivating tribes, or of the artizan (chiefly Julaha) and menial classes. The best cultivating castes are Játs, Sáuis, Tagas, Jhojhas, Gárahs and Rawas, who contribute 20 per cent. to the total and form more than a moiety of the agricultural population.
- 7. The ten principal proprietors hold from 2,315 to 24,013 acres of the total area, given in the "statement of ownership by castes." Sayyads hold 124,660 acres, Mahajans 75,342, Játs (Hindu) 28,873, Marhals 20,075, Tagas (Hindu) 17,772, Gujars (Hindu) 15,189, Sheikhs 15,104, Beorahs 14,901, and Rajputs (Hindu) and converts to Muhammadanism 8,104 acres. No details are given of the castes of cultivators.

Proprietors cultivate 53,735 acres, either sir or khud kasht, 1,825 acres as occupancy tenants and 2,093 as tenants at will. Occupancy tenants hold 129,478 acres, and also cultivate 19,959 acres as tenants at will. 57,419 acres are held by mere tenants at will. Mr. Cadell notes that tenants are more harshly treated in revenue free than in revenue paying estates, and that "the most substantial rights on the part of tenants are found in those neighbourhoods in which the Government demand pressed most heavily."

Of the 420 estates in the 6 parganas, 175 are held in zemindari tenures, 101 of them being owned by a single sharer, or by single families, and 74 by a number of co-sharers, 38 estates are pattidari, and 207 imperfect pattidari. In paras. 41-45 Mr. Cadell gives an account of the Sharah naqdi tenants and of those holding at owners' rates. The former occupied under Mr. Edward Thornton the position of zemindars rather than of tenants, as they had full control over the whole estate (village site, ponds, barren and culturable waste) the proprietors being mere recipients of Malikana. They have now been reduced to the position of ordinary occupancy tenants.

8. Mr. Cadell reports that the condition of the people of the Ganges tract is, on the whole, prosperous. Not only has the Ganges Canal insured the land from ordinary droughts, but it has encouraged the growth of the more valuable crops, and especially of sugarcane. Mr. Cadell doubts whether the agricultural community, greatly as they have prospered in late years, is less indebted than it was formerly, as "the increased credit

due to recent agricultural prosperity, has admitted of increased borrowing and has encouraged more than the old recklessness in expenditure." The poorest class, in many respects, consists of the broken down Sayyad families, formerly the most powerful in the country. But increased prosperity has resulted in a lowering of the prevailing rates of interest.

- 9. The only manufactures are of sugar, blankets, and country cloth. The Muzaf-farnagar blankets are known and valued far and wide. There is a considerable export of grain to the eastward, and of sugar to the south and west. The export of sugar and of gram is estimated to be about twelve lakes of maunds, and in equal proportions.
- 10. The facilities for irrigation afforded by the distributaries of the Ganges Canal have encouraged the cultivation of rice even more than of sugarcane. The latter is generally sown immediately after the land has been cropped for *khartf*. While, formerly, sugarcane was almost invariably grown after fallow. Three-fourths now follow immediately on a rain crop. The area under rice has more than doubled. Mr. Cadell considers that "Ramjiwan Munji," an indigenous rice, will hold its own against "Carolina" on the upland, while the latter is better adapted for the Ganges valley, as it can stand flooding better than other varieties. The twice cropped area has also doubled—the result, it cannot be doubted, of the introduction of canal irrigation. It is estimated at 13,824 acres.
- 11. The kharif crops occupy 57½ per cent. of the cultivated area, viz., 163,324 acres, the rabi crops 42½ per cent. or 120,172 acres, and garden crops ½ per cent. or 745 acres. The crops most largely grown are:—

				Acres.	ì			Acres.
Wheat		•••	•••	68,999	Wheat with barley	•••		10,877
Baira	**	•••	***	33,882	Munji (fine rice)	***	•••	10,383
Urd	•••	•••	•••	23,567	Cotton	•••	•••	9,391
Chari	•••	•••	***	19,264	Gram	990	•••	8,992
Barley	•••	•••	•••	18,272	Dhan (course rice)	•••	•••	.7,236
Sugarcane	•••	•••	•••	16,762	Juar	904	***	3,529
Ploughed for	sugarcane	•••	•••	4,593	Makai (Indian corn)	•••	•••	2,119
Moth	•••			15.541	1			,

The chief agricultural features of the tract are summed up by Mr. Cadell, as follows:—

- (1).—The unusually large percentage of sugarcane (6) rice (6.5), and wheat (26) notwithstanding the extent of poor soil.
- (2).—The almost complete absence of indigo and arhar, owing to the climate.
- (3).—The smallness of the juar crop (1½ p. c.) and the consequently considerable area (19 p. c.) devoted to fodder crops.
- 12. Mr. Cadell has given, in his second chapter, the general and the fiscal history of the tract under report. Want of time forbids the Senior Member's attempting to follow the Settlement Officer through the interesting details which that chapter contains. He proceeds at once to the review of chapter III., which treats of and compares the present and former condition of the tract.
- 13. In his revision of the Settlement, Mr. Cadell found it unnecessary to prepare new maps, but the correction of the maps of 1862 proved to be a tedious and troublesome task. "In the case of many villages the corrections in red ink almost amounted to a resurvey." Mr. Cadell was compelled, of course, to make new khasrahs and to alter the classification of soils adopted in former settlements (Sir Henry Elliott's in 1835 and Mr. Edward Thornton's in 1841). This change was necessitated by the general substitution of canal for well irrigation. Formerly almost the only land irrigated was the manure land in the immediate vicinity of the village site. The canal distributaries now supply water to the outlying as well as to the homestead lands, and the distribution of the manure follows the distribution of the water. Mr. Cadell has therefore omitted the misan land of Mr. Thornton's settlement. His soil classification is as follows:—

- 1 and 2. Wet and dry barah (commonly called in the central and lower Doab gauhan or goind).
- 3 and 4. Wet and dry 1st rausli (loam).
- 5 and 6. Wet and dry 2nd rausli (sandy loam).
- 7. Dry bhur (sand).

Mr. Cadell has not made a separate class of wet bhur, for bhur is not ordinarily irrigated until it is so improved by careful cultivation that it may fairly be classed as 2nd rausli. Mr. Cadell's 1st rausli appears to partake of the character of both matiyar (clay) and 1st class dumat (loam), while his 2nd rausli is identical with 2nd class dumat (loam and sand). Mr. Cadell rightly excluded from his irrigated soils land watered only in seasons of extraordinary emergency. "It is owing," Mr. Cadell writes, "to the exclusion of such exceptional irrigation from the area entered irrigated and to the circumstance that in his new khasra the records of irrigation in past "years, rather than a vague expectation of rapid increase in future, have guided the "entry of irrigated land, that, more especially in the sandier parganas, the new soil "statements show a falling off instead of a rapid increase in the irrigated area, not-"withstanding the continual progress which canal irrigation has made during the last "ten years."

14. Comparing the area returns of 1841 (Mr. Thornton's settlement) and of Mr. Cadell's revision, there is an increase of 5,211 acres in the total area, of 890 acres in groves, and of 42,574 acres, in the cultivated area; under each of the other heads, assessable and non-assessable, there is a decrease amounting in the aggregate to 347,363 acres. The cultivation has extended since 1863 from 249,966 to 263,997, or by 14,031 acres. The irrigated area at the last settlement amounted only to 21,633 acres. By 1863 it had risen to 119,440, and now stands (or rather stood at the time of Mr. Cadell's enquiries) at 122,632 acres. No soil details are available for the last settlement. The proportions now contributed by the several soils are—

Barah 652 acres, of which only 66 are canal irrigated, while 586 acres are watered from wells and other sources.

				Canal.	Well.	Other sources.
1st Bausli 2nd Rausli	•••	***	001 004	91,227 22,401	7,185 ¥73	790 174

The dry soil areas are as follows:--

Barah	•••	•••		•••	• • • • • • • • • • • • • • • • • • • •	•••	4	acres.
lst Rausli	•••	•••	•••	•••	•••	•••	27,671	19
2nd Rausli	•••	•••	• * •	•••	•••	***	37,815	>2
Bhur		•••	***	***		***	75.875	

The total wet and dry areas are 122,632 and 141,365 acres. Excluding bhur, 65 per cent. of the cultivated area of the better soils is watered.

15. In para. 19 of Chapter III., Mr. Cadell has given his own and Mr. Martin's soil areas. Mr. Cadell's returns are far more favourable for the people. Under Barah and 1st rausli (equivalent to Mr. Martin's misan, 1st rausli and dákar) there is a decrease of 63,294 acres, while the increase in the 2nd rausli and bhur lands is 77,325. But Mr. Cadell has pointed out that the soil entries of 1863 were not to be relied on. The same "fatal inaccuracy" extended to the irrigation entries, so that "notwithstanding the steady increase of irrigation from the canal the area of recorded irrigation has fallen off in all the northern parganas, while in the whole tract the increase is a very slight one." The recorded canal irrigation amounts to 113,694 acres. The average canal irrigated for eight years (1863-64 to 1870-71) was 77,530. The largest area

irrigated in any one year was 128,203 acres, that of 1868-69, "a year of drought and exceptional irrigation." Mr. Cadell considers that "72,000 acres is a safe numerical average, and it may be assumed that whenever water is required, over 80,000 acres may be irrigated, as was the case in 1864-65 and 1866-67. "Good irrigable land," he adds, "is unirrigated once in every three years, and bad land every alternate year." The increase in the irrigated area amounts to 100,999, and of the cultivated area to 42,574 acres. In parganas Parchapur and Bhukaheri, in which irrigation was unknown in former days, while the cultivation has increased 14 and 33 per cent., irrigation has increased by 37,683 and 14,663 per cent. In Khatauli, on the other hand, a pargana in which, though irrigation has extended, there has been a large substitution of canal for well irrigation, the increase in the irrigated area is 125 per cent. only, against an extension of cultivation by 10 per cent. In paras. 29 and 30 (pages 70 = 71) Mr. Cadell has shown how the bullock labor, which is released by the canal irrigation, may be utilized in ploughing the land, pressing the sugarcane, &c.

16. In paras. 33 and 34 (pages 75-76) Mr. Cadell compares the crop statistics of the last and of the present revised settlement. The returns show that the area under the more valuable crops has been very largely extended, while there has been an increase of 20 per cent. in the kharif and 14 per cent. in the rabi crops. The percentages of increase in the better crops are:—

Rice	•••	•••	•••	•••	•••	116
Cotton	***	***	•••	***	***	77
Sugarçane	•••	•••	***	•••	•••	75
Barley	•••	•••	•••	•••	•••	58
Wheat		•				94

Although wheat is a crop which requires far more water than barley for example, Mr. Cadell explains that so much of the best land (barley is grown in poorer soil) is now devoted to the cultivation of rain crops that the area under it has been comparatively little extended; and that in the sandy pargana of Purchapur so much additional land has been devoted to sugarcane, rice, and probably to fodder crops, that there has been no good land to spare for wheat and the area of the wheat crop is somewhat less than it was. The area under barley, on the other hand, is greater than it was, as so much of the increased cultivation has been obtained from the poorer soils.

17. Mr. Cadell has given, at page 76, the harvest prices of agricultural produce at Jalálabad, the chief grain mart in the district, for 20 years, and contrasted them with the prices given by Mr. Thornton as the average of 20 years preceding his settlement, obtained by striking an average of the prices in all the Thanahs in the district.

The Settlement Officer finds that the prices of the principal products have risen as follows:—

```
per cent.
Wheat
                                       per cent.
                                                                                    30
                                18
                                                   Munji
                                                                                             ditto.
                                        ditto
Gram
                                                                                             ditto.
                                         ditto
                                                   Dhan
Barley
                                         ditto
                                                   Gur
                                                                                             ditto.
                                28.75
                                         ditto
```

18. While prices have risen, the means of communication have been immensely improved and extended. When Mr. Thornton settled the district it was connected with other districts by unmetalled roads only. Now a metalled road, railway, and a navigable canal, run through the district.

The population of the six parganas at the time of Mr. Thornton's settlement (1841A.D.) is not known, but the returns of 1853 and 1872 A.D., which Mr. Cadell considers to be fairly trustworthy, show an increase in the population from 221,852 to 242,417, but the numbers of the agricultural population are said to have fallen from 121,730 to 93,899. But this falling off is "clearly owing,"

- Mr. Cadell states, "to a difference in classification, the day labouring class "having been considered agricultural in 1853 and non-agricultural in 1872. The "addition of three-fourths of the Chamars, the great day labourer caste, to the number now recorded agricultural would bring this class of the population up to the figure "recorded in 1853." With reference to the influence of the presence of irrigated land on the growth of the population, Mr. Cadell points out while population has increased in a marked manner only in those estates which are sufficiently watered by the canal, it has fallen off only in those irrigated villages which have been over saturated or in which drainage has been obstructed or neglected.
- 19. Mr. Cadell summarizes the "improvements" which have taken place during the term of the last settlement in the 40th paragraph of his report. Cultivation and irrigation have extended 19 and 466 per cent. respectively. Population has increased by 10 per cent. and the prices of agricultural produce have risen by about 20 per cent. The substitution of canal for well irrigation has released much agricultural labour, and the means of communication have been immensely improved. Mr. Cadell considers that rental assets have increased by 37 per cent. The increase assumed by the rent-roll of 1863-64 was, he holds, altogether inadequate. The assumed rent-roll of 1841 was Rs. 5,50,000, of 1863-4 Rs. 6,67,422, and the rental of 1872 Rs. 8,67,163.
- 20. In his fourth chapter, Mr. Cadell has explained his mode of inspection, his proposed rent-rates, together with his assessment and its financial results. Every effort was made at inspection to make the soil entries accurate and safe. Only fields watered in ordinary years were entered as irrigated. Circles were formed of (1) best, (2) average, and (3) inferior estates. Mr. Cadell was able to correct his assumed rates by the experience he gathered when he was placed in charge of three Court of Wards estates. Those rates, excepting in the case of irrigated 2nd rausli, were ordinarily below his ascertained rates. The jumma of the six parganas calculated on the assumed rent-rates comes to Rs. 4,54,712, while the jumma actually assessed is Rs. 4,41,093, being Rs. 94,184 (or 27 per cent.) over the demand of Mr. Martin's settlements, and Rs. 1,18,695, or 36 per cent. over Mr. Thornton's. The revised revenue has been collected in parganas Muzaffarnagar and Bhuma Sambalhera since 1873-74, and in the other four parganas since 1872-73.
- 21. At page 94, Mr. Cadell has shown that under the varying and not altogether favourable circumstances the years following the introduction of the new jummas, they have been collected without difficulty. The rent-rolls of 1873-74, 1874-75 and 1875-76 were considerably more than double the jumma of these years. The arrears shown in the tabular statement, page 95, were those of the year, and the greater part of them, Mr. Cadell considers, were, no doubt, eventually collected.
- 22. Mr. Cadell cites the prices at which land has sold since the revised assessments were declared as proving the moderation of his assessments. The area of the land transferred in four years 1281 fasli, 1282 fasli, 1283, and 1284 fasli, by 1 private sale, 2 sales by order of Court, and 3 mortgage, amounted to 46,990 bighas. The jumma assessed in them was Rs. 35,360. They were sold for Rs. 6,44,385, or at 18 years' purchase of the jumma. The price paid for lands transferred by (1) private sales was 22 years' purchase of the Government demand; (2) sales by order of Court, 12 years' and (3) mortgage 14 years' purchase.

On this subject Mr. Cadell's own words may be quoted—"But even when sales by order of the Courts are included, the average price of land during four years is 18 years' purchase of the Government demand, and 23 years of the assumed profits, such prices furnish strong evidence of the moderation of settlement, and could hardly be obtained if the assessments were unduly severe. The contrary criticism, which is apparently more plausible, that the prices of land show the assessments to be unduly light, must be parried by the reflection that a heavy enhancement has been taken, and that it is notoriously difficult to increase the land revenue more rapidly without im-

perilling the prosperity of the country and causing the greatest hardship to the people. But the circumstances that the present demand is in many cases light, that irrigation is still extending, and that prosperity is likely to continue, furnish sufficient reason even if this were not already determined on other grounds, for restricting the period of settlement to twenty years."

- Department, No. 118, dated 25th March, 1870, para. 10, directed that the new assess* Their No. 1325A., ments (viz., those to be made hereafter by Mr. Cadell) should run as proposed by Mr. Inglis for the same period as the present settlement, so as to expire at the same time with it. The Board recommended,* in submitting the final Settlement Report for the Muzaffarnagar district, excluding the parganas reported on by Mr. Cadell, that the revised assessments be sanctioned for a period of 30 years or from 1861 to 1891. Into the several points discussed by Mr. Cadell, in the concluding part of his report, Mr. Reid does not propose to enter. The most important subject, perhaps—the enhancement of the water-rates on the Ganges Canal—formed the subject of a separate and prolonged correspondence between the Board and the Government.
- 24. Mr. Cadell has brought to a successful termination, and at a comparatively moderate cost, amounting to little more than one and a half year's value of the additional land revenue obtained by the revision, a delicate and difficult task, which, as the result has proved, could not have been entrusted to better hands. He has shown great judgment in imposing a moderate demand without sacrificing the interests of Government. The Senior Member has great pleasure in bringing to the notice of His Honor the Lieutenant-Governor the excellent services rendered by Mr. Cadell in his settlement of the Ganges tract of the Muzaffarnagar district.

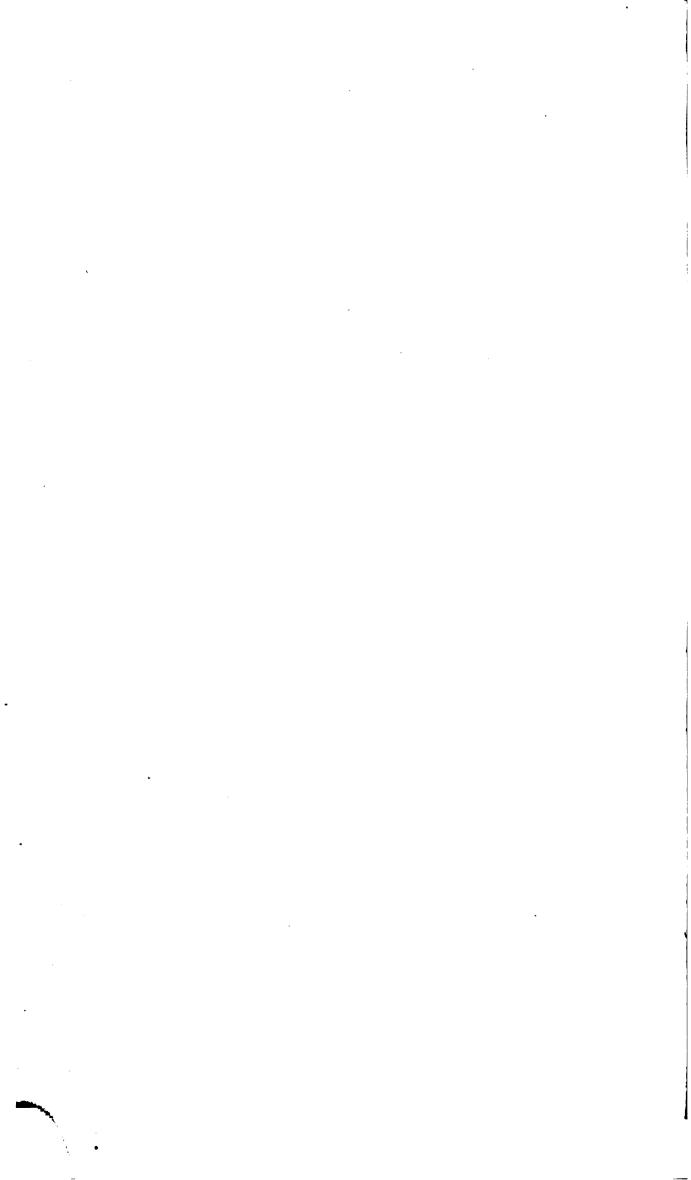
I have the honor to be,

SIR,

Your most obedient Servant,

J. S. MACKINTOSH,

Secretary.



### NOTE.

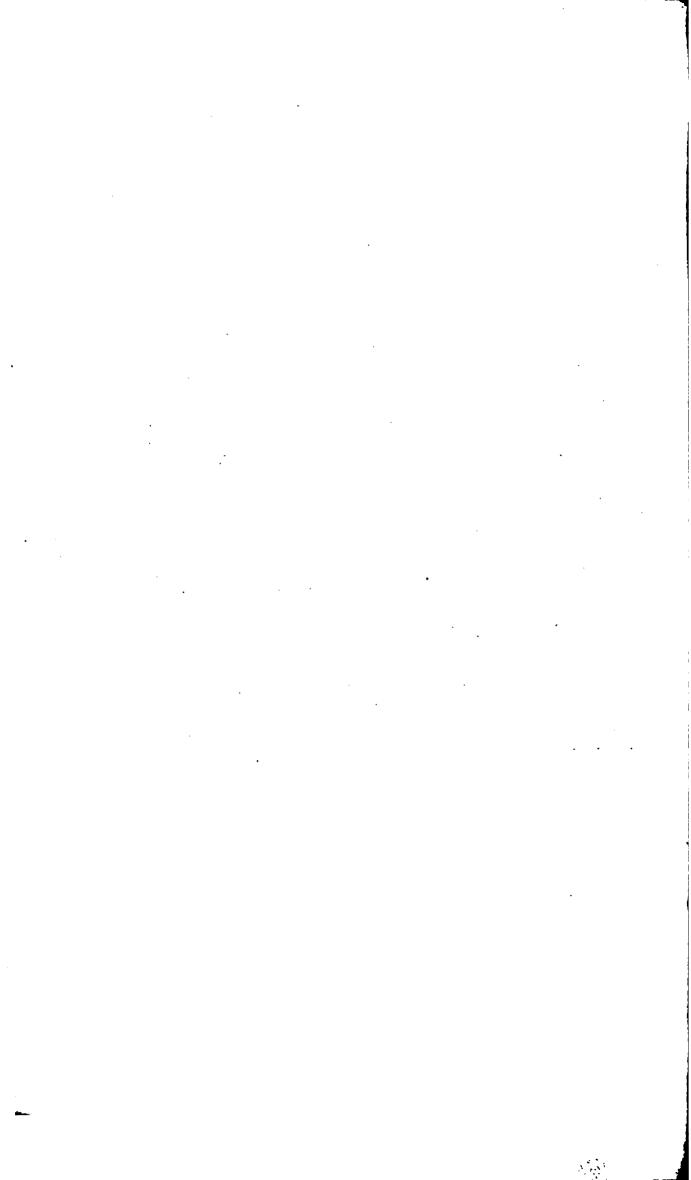
The settlement had been nearly brought to an end when I went on furlough in April, 1874, but the bulk of the report was unwritten. On my return in the end of the year I began inspection work in Bundelkhand, and the final report for Muzaffarnagar was only completed during privilege leave in 1877. On returning from leave, I held charge for three months of the Banda district in addition to my own duties, and this additional work and the necessity of devoting the cold-weather to inspection, have still further delayed the printing of the report.

The circumstances under which this report has been prepared have not been favourable, and while parts of it written at Muzaffarnagar are fuller than was necessary, some subjects have not been treated at sufficient length. Regarding the agriculture of the tract more especially it was difficult to write satisfactorily at a distance, and some materials have been left unused. The important questions moreover connected with the influence of canal irrigation upon the rental, have not been discussed with the thoroughness which was desirable.

It was at first intended to print the pargans reports, and the final report has been written on the assumption that this would be done; as however two of the six pargans reports have been already printed in the Revenue Reporter, and as to print the pargans reports would double the balk of this volume and the expense of printing, it has been thought unnecessary to incur the additional outlay.

BANDA:
December, 1878.

A. C.



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## Settlement Report on the Ganges Canal Tract in the Muzaffarnagar district.

### CHAPTER I.

### GENERAL DESCRIPTION OF THE TRACT UNDER REPORT.

1. The district of Muzaffarnagar, having been formed out of parganas previously included in Saháranpur and Meerut, is bounded on the north and south respectively by these two districts. Its western boundary is the fairly constant deep stream of the Jumna, that on the east is the shifting channel of the Ganges.

Boundaries of the dis

2. The district lies between 29°-11′-30″ and 29°-45′-15″ north latitude and 77°-3′-45″ and 78°-10′-45″ east longitude.

Position.

3. The area in 1872 was stated to be 1,659 square miles and 229 acres, and the population 690,082 souls, being 415 to the square mile.

Area

4. The Muzaffarnagar district is divided into a succession of narrow strips, clearly defined by rivers flowing almost due north and south or by distinct natural features. Beginning from the west these are—lst, the khadir or valley of the Jumna; 2nd, the Jumna and Kirsani doáb, fully irrigated or rather over-saturated, to the east by the Eastern Jumna canal, and to the west readily irrigable from wells, if the inhabitants had the industry to use them. Beyond this, again, comes the narrow strip between the Kirsani and the Hindan rivers, naturally fertile to the south, but dry and unproductive towards the north, and with as yet only an insufficient supply of water from the

Natural divisions.

5. The western half of the district, bounded on the east by the Hindan, differs from the eastern portion in its better natural supply of water for irrigation, and also in its better average quality of soil, for east of the Hindan belts, and hillocks of sand begin to make their appearance, and to affect to a degree unknown further west the character of the soil.

Eastern Jumna canal.

Difference between eastern and western divi-

6. The fourth portion of the district is the Hindan and Káli doáb, the only tract of any extent, except the river valleys, which is entirely beyond the influence of canal irrigation, or, to speak more accurately, cannot look for canal irrigation until a new and important branch of the Ganges canal shall be constructed. And unfortunately, although this tract has not yet benefited by canal irrigation, frequent surveys and constant rumours of the immediate construction of the Deoband branch have had a disastrous effect in discouraging the sinking of wells; and the northern portion of this tract is still liable to be impoverished by recurring droughts, and the portion of Charthawal, which lies between these rivers, is one of the few portions of the district in which population is distinctly decreasing and the land revenue is falling off.

The Hindan and Kalidoáb.

7. Here, as elsewhere in the district, soil and cultivation both i mprove towards the south; and although it is chiefly in the southern parganas that sand is so prevalent, the better land is so good, irrigation is so much more generally practicable, and the strong communities of Játs and Tagás are so energetic and industrious, that they take advantage of every facility afforded to them, and overcome, as far as may be, most of the obstacles in their way. Indeed, the superiority of the southern parganas to those further north is most likely quite as much due to the character of the inhabitants as to any natural advantages of soil and situation which they enjoy; and if the wave of Ját immigration had been stronger, it might have carried high cultivation, even independent of the canal, to the northern boundary of the district.

Superiority of soil towards the south. The tract under report.

8. But this report has no concern with that portion of the district the situation of which has been shortly described, but relates to the land lying east of the West Káli river and west of the river Ganges. Indeed, as far as regular settlement operations are concerned, it has to do only with the upland portion of the Ganges and West Káli doáb, and with the land attached to upland villages stretching into the valley of either river. To this tract are attached also 13 estates still retained in pargana Muzaffarnagar which lie on the left bank of the West Káli.

Peaition of the Ganges

9. The Ganges and Káli doáb of the Musaffarnagar district is situated between 29°-10′-20″ and 29°-43′-30″ north latitude and between 77°-37′-94″ and 78°-10′-45″ east longitude. It contains seven parganas, Púrchapár and Gordhanpúr to the north, Muzaffarnagar and Bhúkarheri in the central tract, Khatauli, Jánsath, and Bhúmah Sambalherah—lying from west to east on the southern boundary of the tract and of the district. Gordhanpúr forming the north-east corner of the district, is entirely in the Ganges Valley, and Púrchapár, Bhúkarheri, and Bhúmah Sambalherah stretch into the valley, and the khadir or wholly valley portions of these parganas have been excluded from the regular revision of settlement which has now been completed for the upland portion of the doáb, and for that limited extent of valley land which is attached to villages partly on the upland.

Boundaries of the tract under report. 10. The tract therefore which is the subject of this report is bounded on the north by parganas Deoband and Manglaur of Saháranpur; on the West by the West Káli river, except in pargana Muzaffarnagar, which includes a broken line of villages beyond the West Káli, adjoining immediately parganas Charthawal and Bagra. To the south lie parganas Sirdhanah, Meerut, and Hastinapur, of Meerut, while to the east the tract is bounded by the khadir or river valley which lies between the upland and the Ganges.

General features of the Ganges canal tract.

The Ganges canal tract of Muzaffarnagar, as that portion of the Ganges and West Káli doáb with which this report is concerned may be called, is wedge-shaped, increasing in breadth from 12 miles near the northern boundary to 26 miles adjoining the Meerut district. The length is 34 miles and the total area is 569 square miles. The general slope of the country is from the north and east to the south and west, and the high bank overlooking the Ganges valley extends in an unbroken line through the district. This circumstance seriously affects the character of the immediate neighbourhood of the valley on either side of the tract. On the east, from the upland into the Ganges valley the transition is rapid, and the level upland is bordered by a belt of ravine country from one to two miles in extent, widening out to wards the southern boundary. Although in places there is above the broken ground much waste land which may one day come under the plough, the ravines themselves form an extensive tract of unculturable waste, and towards the north they are making serious inroads on the upland. Except where the upland has been recently cut away, the broken ground is ordinarily covered with brushwood, which affords shelter for occasional panthers, and when required, for wild pig migrating from the khadir to the cane-fields of the upland. Wolves, too, are frequently met with in the neighbourhood of the petty hamlets which are scattered along the edge of the central and southern upland.

Towards the west, on the other hand, the level falls away more gently, and there is in the northern pargana but little broken ground between the upland and the valley of the West Kali river. Towards the south, however, there is a change, the banks are higher and there is more irretrievably broken land. In this neighbourhood, moreover, which is generally conterminous with pargana Khatauli, the slope is towards the valley of the East Káli, and the drainage of the country passes down the middle of the tract.

The slope from north to south is very marked, and from within half a mile of the northern boundary to a short distance beyond the southern boundary of the district no less than five falls are required on the canal to moderate the otherwise excessive slope in the channel. The difference between the level of the Mahomedpurfalls just to the north, and that of those at Salawa, just to the south of the district boundary, is one of no less than 78 feet, the intervening distance being 28 miles.

12. The Ganges canal enters the district within a mile of the broken land above the Ganges valley, and leaves it within six miles of the West Kali river, having in its course through the district left the watershed to the east and passed through the basin of the East Kali river in order to reach the extensive tract between that river and the Hindan, into which the West Káli falls a few miles below the southern boundary of the tract which is the subject of this report. At a point about half way in the course of the main canal through the district, just below the village of Jauli, the branch formerly named from its proposed ultimate destination the Fatehgarh branch, and now called the Anupshahr branch, is carried out towards the south-east, and irrigates a portion of the district in that direction. This branch, however, which leaves the main canal just below one of the numerous falls, runs at such a low level that, as far as this district is concerned, it is rather an obstacle than a help to irrigation, and the villages which are wholly dependent upon the branch are not likely to enjoy a satisfactory supply of water until arrangements are made for supplying them with irrigation from the main canal.

13. The chief physical feature of the tract is the prevalence of sand, which to the morth runs in close parallel ridges from north to south. In the southern parganas these are dispersed more widely and are less clearly marked; but on the other hand, an extensive sand plain extends from the eastern portion of Muzaffarnagar, through the morthern portion of Jánsath, and in a south-easterly direction through Bhúmah Sambalherah into the Meerut district,

This sand plain gives to the south-eastern pargana an enormous excess of bad soil, and in Bhumah Sambalherah less than one-third of the cultivated area is naturally good land; but the sand is for the most part level, and there is in this way greater hope of improvement than in the northern pargana Purchapar and in Muzaffarnagar, which are both traversed by lines of sand-hills, not merely by level belts of sand.

With the exception of Bhumah Sambalherah, the natural fertility of the tract steadily improves towards the south. In Purchapar little more than one-third of the cultivated area is natural loam or clay. In Bhukarheri and Muzaffarnagar, the east and west central parganas, the proportion is increased to about one-half; in Jansath it rises to sixty per cent.; and in the south-western pargana Khatauli more than two-thirds of the pargana are naturally good loam. Irrigation and careful cultivation by an increasing population are gradually changing the character of much of the sandy land; but a tract in which, even now, only 51 per cent. of the cultivated area is entered loam and clay, and in which before the opening of the canal, irrigation was for the most part difficult, must thirty years ago have fully deserved the description of it given by Mr. Thornton as being "dry and sandy."

14. For throughout the sandier portions irrigation was practically unknown. Except in the south-eastern parganas earthen wells could not be worked, and elsewhere, even where masonry wells existed in sufficient numbers, water was so distant from the surface that only garden land was irrigated. Close round Muzaffarnagar masonry wells were numerous; and in the south of Jánsath, in the south-west corner of Bhúmah, and in the greater portion of Khatauli, irrigation from wells, masonry and earthen, was general, but in by far the greater portion of the tract, wells were few and far between, and water was distant.

And there are no other sources of irrigation; there is no natural jhil in this portion of the upland, and the size of the ponds seems to be in almost in variable proportion to the size of the village inhabited or deserted, which is the cause of their existence. To use such scanty and precarious supplies for irrigation, would have

The Ganges canal.

Physical features sand-

Former want of irrigation from wells.

From jhils.

caused far more inconvenience to the people at large than would have been made up for by any slight benefit to individuals, and it was only in exceptional cases that such ponds were used for irrigation.

From rivers.

The rivers, again, run very far below the level of the upland, and although the valleys must have been of much use in years of drought, irrigation from the rivers could not be general, and minor streams were few and unimportant, and for this purpose useless. To the north there are none, and it is only in pargana Muzaffarnagar that small drainage hollows begin to join the West Káli river. It is in the south-east corner of this pargana, too, that the East Káli river had its source, and farther south there are several small depressions which drain into the East and West Káli rivers.

Change worked by the

15. Thirty years ago, then, the most striking features of this tract must have been the want of means of irrigation and the prevalence of sand, and in a year of drought the fertility of the river valleys must have formed a pleasant relief to the eye wearied with the view of scanty crops in an unirrigated upland. Now all is changed: for many years nearly all the upland villages have been supplied with irrigation from the canal, and year by year fresh estates are added to the list until only a few remain in Bhúmah, Jánsath, Khatauli, and Muzaffarnagar, which are not watered from this source.

With the old difficulty of irrigation, too, has disappeared in a great measure the extreme bareness of the country, which was the result. The line of the canal is marked by a thick belt of plantations on either side, and notwithstanding the serious check given to tree-planting by tenants, in recent years, by the decisions of the courts, ancient custom has not entirely lost its force, and the privilege which was formerly exercised only by a few is now gradually being 'asserted by many; and as the northern pargana of Purchapár, which, next to Bhúmah, was the barest of all, is owned for the most part by cultivating communities, there has then been little check to the improvement which had begun in that neighbourhood.

Injury caused by the

16. But unfortunately the fertilization of the previously dry upland has been accompanied by the deterioration or by the ruin of the lower lands. And as so much of this report will have to be devoted to the statement of the benefits which have been conferred upon the district by the Ganges canal, it is necessary that I should note in passing the needless injury that has been caused on the upland by the obstruction of drainage by the canal and its distributaries.

A great work like the Ganges canal could not of course be turned aside to avoid the depression of the East Káli river, but it is to be regretted that the existence of this depression as a line of drainage was not earlier and more practically acknowledged. But besides this, distributary after distributary was run out without regard to the drainage of the country, and for many years the necessity of allowing waterway under such rajbahas was not practically admitted; and it is only recently that the department has made it a rule that drainage should be facilitated instead of being obstructed. Now unfortunately the remedy has been rendered more difficult by the fact that the railway engineers seem to have considered that obstruction of drainage by irrigation works justified similar obstruction by the railway. The argument was not a good one, for a canal distributary running across a drainage line and unprovided with permanent waterway under it could be cut when flooding became serious, whereas the railway embankment forms a much more permanent barrier.

Recent improvements in drainage.

17. Within the last few years very great improvement has been effected. One of the worst of the offending distributaries has been abandoned, permanent means of escape for the surface drainage have been constructed under several others, and in Muzaffarnagar an important system of drainage has greatly improved the condition of the neighbourhood; and similarly thorough work in the southern parganas will, it may be hoped, quickly remedy the evils which have resulted from want of forethought in past years.

Apparent aggravation by extension of cultivation.

18. In the Muzaffarnagar pargana especially, as to a less extent elsewhere, it must be admitted that the evil appears more serious owing to the improvements which the canal itself has effected. Thirty years ago, when land was in less request, wide margins were left round ponds and depressions, and it was only in seasons of excessive rainfall that the flooding of cultivated land occurred. Now, cultivation has encroached upon the old depressions, small ponds have been ploughed up, and the area of cultivated land so situated as to be liable to injury from a heavy but not exceptional rainfall, has been largely increased. If, then, the Irrigation Department has a good deal to answer for with reference to drainage obstruction, it is also frequently blamed for what is only a natural result of the increased value of land which thirty years ago was allowed to lie waste, while it now swells the profits of the landlord in a dry year and intensifies the outcry against the department in a season of plentiful rain.

And now there is less ground for complaint. A good deal has been done already, and when the projects under consideration shall have been completed, there will, as far as I am aware, remain only the south-west corner of the tract (in which the railway, the canal and its distributaries have run more than ordinary riot among drainage lines) from the town of Khatauli to the Meerut boundary to be drained.

19. But besides the injury to the upland which has been occasioned by irrigation works, another evil may be justly attributed to the canal, and that is the great increase of marsh in the valleys of the rivers. As far as the tract with which this report deals is concerned the injury has not been very serious, because the valley land is limited in extent, but its deterioration has been general and complete alike in the Ganges valley and along the West and East Káli rivers; and it is probable that only in the case of the land lying along the latter streams, and especially in the valley of the East Káli, the reclamation of the land would give any adequate return for the expenditure required. When, therefore, the great improvement due to the canal comes to be estimated, it will be necessary to make a comparatively trifling allowance for the injury to the valley which has been found inseparable from the improvement of the upland.

Injury to the valley lands.

20. In respect of communications the tract under report is now well off. A metalled road and a navigable canal pass through it from north to south, and in 1868 the Scinde, Panjáb, and Delhi Railway was opened from Meerut to Saháranpur.

Communications.

The minor roads on the upland are maintained in fair order, but those in the valleys are still very indifferent; and a very important line of communication traversing the district from the Ganges to the Jumna through Muzaffarnagar and Shamli and connecting Western Rohilkhand with Panipat in the Panjáb is still only partially bridged and metalled.

Abstract statement of rainfall at the various rain stations in the Muzaffarnagar district from 1860 to 1875, both years inclusive.

Station.	1860.	186 <b>L</b> .	1862.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1878.	1874.	1875.	Total,	Aver-
Shámli	6.5	18 9	26.7	29.7	18.6	22.3	15.8	43.8	12.2	82.2	29.6	28.6	30-3	29.8	86-9	36,1	417-2	26.07
Burhana	8.7	15.9	88,2	34.6	25.4	38 0	21.5	3 <b>2·7</b>	17.6	14.7	27.3	41.3	84•1	81.6	33-8	<b>2</b> 7·0	437-1	27:32
Muzaffarnagar,	7:9	27:0	38.8	<b>2</b> 9·9	25.3	29-9	26.7	35.6	17:1	24.8	84 0	36.5	82·5	29-5	48.8	380	466.5	29-15
Jápanth	16.5	30.2	38.8	29.0	28.3	87-9	26.4	<b>32</b> ·8	19.8	26.2	24.7	45.4	25.7	35.1	55.3	40.3	596-7	31 <b>·66</b>

21. The rainfall, if the statistics given above are correct, is greater on the eastern than on the western side of the district, and is greatest of all, it is believed, along the high bank of the Ganges. The average rainfall during 16 years was 26.07 inches.

Rainfall:

at Shamli, 27.32 at Burhana, 29.15 at Muzaffarnagar, and 31.66 at Jansath.	During.
the same period the average monthly rainfall has been as follows:-	

Station.	1860.	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.	1869.	1870.	ı 871.	1872.	1873.	1874.	1875.
Shamli Burhana	l	1.83	1	2.88	2.11	3.16	1.79	2.72	1.46	1.22	2·46 2·26	8-42	2.84	2.63	281	2-25
Musaffarnagar, Jánsath	1-87	1	1	ł	1	2·49	1	2·96 2·73	1	1		3.78		2-92		2·75

Climate

22. There can be little question that the climate of Muzaffarnagar is distinctly worse than it was before irrigation from the canal became so general, and the cultivation of rice was so much extended. Even if the canals be absolved from all blame with reference to the recent fever epidemic of 1867 and subsequent years, there remains the unquestionable fact that malarious fever is extraordinarily prevalent and fatal, and that in many of the best villages the population is decreasing. But it may be hoped that the drainage oprations which have been completed and are proposed, and the restriction of canal irrigation and of rice cultivation, especially in the immediate vicinity of villages and towns, may have some effect in modifying the evils which have followed the over-saturation of the soils and the neglect of drainage in the distribution of canal water.

Prevalent diseases.

23. Cholera is a less constant visitor than in most districts, and its ravages are usually less severe than elsewhere. The great cause of mortality is malarious fever, which even in 1875, when cholera was unusually fatal, was the cause of over 76 per cent. of the deaths reported. To small-pox were attributed 9 per cent., to bowel complaints 8 per cent., to cholera 3, and to injuries and other diseases 4 per cent. It is curious that although for so many years some attention has been paid to the prevention of small-pox and cholera, it should only quite recently have been thought necessary to prevent the wholesale extension of fever owing to obstructed drainage and over-saturation of the soil.

Temperature.

24. The climate passes during the year through the usual changes of temperature and humidity. The mean yearly temperature of the district is about 76° Fah.; the mean monthly temperature may be shown as follows: January 58°, February 64°, March 70°, April 80°, May 90°, June 98°, July 88°, August 86°, September 84°, October 78°, November 64°, December, 57°.

Recent mortality.

25. The mortality recorded during recent years is as follows, the population of the district being taken to be 690,209:—

Year		Cholera.	Small- pox.	Fever.	Bowel complaints.	Injuries.	Other causes.	Total.	Deaths per 1,000 of the popula- tion.
1671		96	4,882	15,597	1,811	118	499-	22,340	32-54
1872	•••	35	1,097	18,704	1,372	114	445	16,857	24.60
1873	,	5	3,199	11,932	1,296	188	609	17,150	24:84
1874	•••	2	877	12,955	1,046	167	657	15,704	22.75
1875	•••	56 Ì	1,793	14,521	1,605	201	554	19,151	27.75

During these years much has unquestionably been done for the health of the district, but until registration shall become more perfect it would be useless to attempt to draw conclusions from the few statistics which have been collected.

Towns and markets

26. There is no want of local markets in the Ganges canal tract of the Muzaffarnagar district; each of the small parganas has its market town, and most have more than one. But with the exception of Miránpur, the chief town of Sambalhera, the south-eastern pargana, there was until recently no market of more than local importance to the east of the West Káli river; and Miránpur, although boesting a fair trade in salt and sugar, was greatly inferior in importance to either hamli or Jalálpur. Khatauli was and still is a grain market of moderate importance, the position of which on the line of railway and on the Ganges canal gives it considerable advantages when the expert of grain is stimulated by scarcity in distant markets to the east.

The town of Muzaffa

27. But nowadays by far the most important market in the tract is Muzaffarnagar itself, which has greatly risen in importance since the opening of the railway, and has already attracted a large portion of the sugar trade from Miránpur in the south-east, and Shamli in the west. Formerly the sugar trade necessarily followed the road into the Panjab by Shamli and Panipat to the western markets, but now a great portion of the sugar exported from the district is sent by railway. scaroity in Bengal, on the other hand, gave Muzaffarnagar a hold upon the grain market, which it is not likely to lose. Up to 1872 Muzaffarnagar was a town of chiefly official importance, the population of which had fallen off rather than increased since the previous census. It was founded by Sayyid Khan Jahan in the reign of Sháhjahán, and derived its name from that of the founder Abul Muzaffar upon whom the title by which he is more generally known was conferred by his imperial master. There is no building of any note in the town, and the fine mansions, handsome mosques, and tombs constructed in the days of Sayyid prosperity must be looked for in the earlier headquarters of the clan near Miranpur and at Jansath and Khatauli. The streets are poor and irregular, the only straight one being the truth road, which is lined with shops. The Government buildigs are not above the average in appearance, and are probably below the average in stability. The population of the town in 1872 was 10,793.

28. Abstract statement of population for the six parganas under revision in the Muzuffarnagar district according to census of 1872.

			Total	POPULAT	ion.		weltu Vlatic	1	Rate of popula- tion per	Rate of eui-	Rate of agricul- taral	Rate of popu-
No.	Pargana.		Males,	Females.	Total.	Malve.	Fermion	Total.	aguare mile of cultiva- ted and culti abl are	tiva- tion per square	BUXE DI.	lation per acre of culti- vated and cultur- able area.
_	B6-shanfa		10.104	14,651	33,836	T 400	£ 790	13,278				
1	Pürchapát Upland	94	18,184 18,170	14,684	32,894	7,489 7,476	5.775	13,25	15		278	
	77 13		14	17	31	13	14	27			2/0	WO
		***	26.819	21,843	48,653		7,016	15,721			259	793
3 1	Bhúkarheri		91,689	17,887	39,476			15.812			200	170
•	Upland		20,040	16,640	38,580	7.739	6,281	14,090	<u> </u>		258	978
	Valley		1,649	1,247	2,896	987	806	1,792	1			
		٠-	20,056	17,041	37,097						285	663
- 5	Khatauli	·[	26,855	22,401	49,256		8,155	18,410			885	895
- 6	Bhumah Sambalhe	m,	19,288	16,612	86,090	,,,,,,		14,547				
_	Upland	***[	26,905	14,728	81,528			,			294	806
	Valley	"	9,483	1,889	4,872	1,639	1,290	2,929	,		•	
	Total	1	132,9#2	110,435	243,417	K1 000	41 071	29 900				
	Upland	::	128,836	107,282	236 118	40.000	30 06-	80 151	482	415	284	
	Valley		4,148	3,158	7,299	97,209	2,109	6,748	16 ***	1 318	354	750

29. The population of the tract under review is shown in the statement given above to be much denser than has hitherto appeared to be the case, owing to the exclusion from the calculation of the khadir or valley portions of the eastern parganas, Púrchapár, Bhúkarheri, and Bhumah Sambalherah. On the upland the density of the population may be looked upon as fairly sufficient, considering the agricultural circumstances of the tract, in one pargana alone, Khatauli, and even here there

Density of population

is room for a larger population. The population is least sufficient to the nerth apu north-east, and increases in density towards the south and west, as the following abstract

	Púr	ohap <b>a</b> r.		
Population to square mile of total area	•••	369		
Ditto of cultivated and culturable area	•••	448		, .
		Muza	farnagar.	Bhúkarheri.
Population to square mile of total area	•••	•••	446	368
Ditto of cultivated and culturable area	•••	•••	507	432
	Khatau	li. Jáneath.	Bhúmah	Sambalherah.
Population of square mile of total area	<b>507</b>	457		416
Ditto of cultivated and culturable area	578	510		510

But even in Khatauli, Jánsath, and Muzaffarnagar, the population is not probably more sufficient for the agricultural wants of the locality than in the northern parganas, for in the two former there is still a considerable extent of irrigation from wells, and in the third the urban population entirely unconnected with agriculture is greater than elsewhere.

Distribution of popula-

30. In Muzaffarnagar, as in other districts, in which there was long continued disorder before and immediately after its acquisition by the British Government, the abandonment of the smaller hamlets was a blow from which the district did not quickly recover; and although both before and since 1841 many deserted hamlets have been repeopled, there are still fewer villages and hamlets than in many other parts of the country, and even in the upland alone there is on an average only one village or hamlet to 1,197 acres. There are, however, few portions of the tract in which there is a distinct want of population, and along the upland of Púrchapár and Bhúkarheri, where it is most required, the absence of wells renders the settlement of new hamlets difficult and expensive.

The average area to each hamlet is greatest in the parganas to the north and west, in which the population to the square mile is smallest; and the parganas which are best in this respect are Khatauli with an average of 849 acres per hamlet and Bhúmah Sambalherah with an average of 978.

Villages and hamlets.

31. For agricultural purposes the best villages are those with a population of from 500 to 2,500, and such villages contain 135,404 of the total population of the tract, smaller hamlets containing 43,264 and larger towns 64,749. The subjoined statement shows the number of villages and hamlets in each pargana in 1865 and in 1872. It will be seen that the increased population has tended not to the planting of new hamlets, but to raise petty hamlets into the rank of substantial villages.

Statement of towns and villages classed according to populative in the six parganas of the Muxaffarnagar district, the settlement of which has been revised.

		Ptrchaptr.	ap <b>er</b> .		¥	Muzaffarnagar.	nagar.		*	Bháiserheri.	Į.		Jax	Janli Jémath.	oth.	•	Kha	KhatauH.		Bh	Bh <b>t</b> mak Sambalherah.	mbalk	ray.		Total.	<b>~</b>	-
	=	1866.	1872.	<u>e</u> i	1865.	.96	1872.	ęi	1866.		1672.	<u> </u>	1866.		1873.		186 <b>6</b> .	~	1872.	18	1865.	=	1872.	*	1666	=	1872.
ropustion.	15 M	Per- sons	Vil-	Per-	Vil-	Per- Bons.	Vil- lages.	Por-	Vij. F	Por- Vil.		Per Vil.	1. 39 80 a. 4	A A	-1 g	2	S S S S S S S S S S S S S S S S S S S	AND AND AND AND AND AND AND AND AND AND	Pas- sons,	17 S	Pac-	F .	P. S. S.	Vil.	Per-	12 8	Persons.
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<b>2</b> 042	3	38,341	9	32,43	66	8.5.63	2	8,653	88	86,98	, <u> </u>	30,576	29	1 87,58	\$6.79		11,11		8,856		84,469	8	96,00	=	230,446		248,417
Upland	: 1	<b>!</b> :	\$	32,804	1:	1:	i i		2 2 2	2,936	88 -	36,680	; ; 	1 ::		!!	1:	1:	::	\$ 5	29,38-6 5,068	5.8	4,372	3 =	8,008	305	£36,118 7,299

Prevalling captes.

32. The caste statement which will be found in appendix I. shows that the most numerous castes in the Ganges canal tract are as follows:—

o.		Name of ca	uste.		Hindus.	Muhamma- dans.	Total.	Percentage.
<u> </u>	Chamárs	•4•		•••	42,320		42,330	17:3
2.	Játs	•••			17,652	731	18,388	7.5
3	Mahájans	***	44.	•••	18,867		13,867	5.7
4	Gújars	•••	•••	•••	11,110		11,110	4.6
5	Julahas	•••	***	•••	1,029	9,941	10,970	4.6
6.	Brahmans	••1	•••	•••	10,598		10,598	48
7	8ánis	244	•••	•••	10,546		10,546	48
8	Kahára	•••	•••		8,947		8,947	3.6
9	Sayyids	•••	•••		•••	7,929	7,929	3· <b>9</b>
19	Bhangis	•••	***	•••	7,740		7,740	8-1
11	Sheikhs	,	***		•••	7,865	7,865	8-0
12	Tagás	100	•••		5,680	3,645	7,275	3-0
13	Rájputs	***	***		4,084	2,345	6,429	2-64
14	Jhojhas	•••	***		***	5,510	5,510	2-26
15	Gárahs	900			•••	5,160	5,160	211
16	Gadariyas	***	***		4,865	150	5,015	20
17	Nais	***	***		2,245	2,488	4,778	2.0
18	Kumhárs	•••	•••		4,650	48	4,698	20
19	Kassabs	•••	***		***	4,695	4,695	2.0
30	Barbais	•••			3,898	657	4.555	2.0
21	Chauhans	•••	•••		4,148	9	4,152	20
23	Telis	•••	•••		•••	3,528	8,528	1.0
23	Rawas	••	••	•	8,443		8,443	1.0
24	Jogis	•••	•••		2,976	276	8,252	1.0
25	Patháns	••	•••		•••	3,086	3,086	1.0

Of these, the Játs, Sánis, Tagas, Jhojhas, Gárahs, and Rawas are the best cultivating castes, and their combined numbers amount to slightly less than 20 per cent. of the whole population and to more than 50 of that recorded as agricultural. And the enormous number of the members of the agricultural labouring castes is a feature of almost as great importance as that of the sufficient proportion of the best cultivating castes, for a sufficient supply of field labour is absolutely necessary for the cultivation of the most valuable crops even in parganas in which Játs, Rawas, Gárahs, and Jhojhas, the best cultivating castes of all, most largely predominate. Nearly one-third of the population is Muhammadan, and of this the Sayyids number only one-tenth, the Sheikhs are slightly less numerous, while the great bulk of the Muhammadan population is composed of the Nau-muslim cultivating tribes, Garahs, Jhojhas, Rangars or converted Rájputs, Tagás, and the like, or of the artizan and menial classes, Joláhas (the most numerous of all), Kassabs, Telis, Nais, Bhistis, and Lohars. Pathans are not very numerous, and there are hardly any Mughals.

Proportions in cach

33. The following abstract shows the proportions of the more numerous castes in each pargana. Chamárs head the list in every case; Játs come next in three parganas; while Rawas, a somewhat similar tribe, come second in Khatauli. In Chapár, the existence of a large Taga colony gives the tribe a prominent position, while in Bhúmah Sambalherah the chief town Miránpur-Kaithorah is the headquarters of an influential Mahájan family, the members of which have since the days of the Mughal emperors devoted themselves to the service of the state rather than to the hereditary pursuits of their caste. The Sánis, who form so important a tribe in Jánsath and in the tract generally, are somewhat similar to Mális, but they devote themselves more to general farming and less to garden cultivation.

As agriculturists they are about half way between the Ját and the Máli; their cultivation is not so minute as that of the latter, while they limit the most careful

# MUZAFFARWAGAR DISTRICT.

farming to a smaller proportion of the land at their disposal than is the case with the Játs:—

Jo.	Pargana,	Most numerous caste.	Second.	Third.	Fourth.	Fifth.	Bixau	Seventh.	Eighth.	Ninth.	Tenth.
3	Pirchagie	Chamárs. Ja 85	T <b>in</b> ás. 11 19	Gújars, 6-81	Brah- mans 5:35 Jola-	Jhojhas, 5:30 Brah-	Játa, 50 Chan-	Join- has. 4 61	Kahára. 4·5‡	Garahs.	Baniyás 40
2	Bhúkarheri ***	Chamárs. 19 92	Játe. 11:85	Sánia, 5'0	ha. 5:0	mans. 4 28 Gadari-	hânu. 3 67 Jois-	Kahára. 3·79 Brah-	Gújara 3'48	Jhojhas. 3 46	Bantyás, 348
*	Muzaffarnegar	Chamara 17 89	Játa, 8 74	Baniyas. 7 46	Garahs 7 31	yán. 6-59	has, 6:17 Jola-	mans. 4 37	Hallam 4.0	Sayyids, 375 Brab-	Bhangis 3'45
.4	Khatauli	Chaméra. 17:52	Rawas, 6 35	Sánis, 6 23	Játe. 5 54	Baniy s. 5 52		Bhaikhe. 4:23 Jola-	Rajpūts 4 14	mans.	Kahára, 3:90
1	Jánasth	Chamárs. 14 45	8ánis. 8 94	Sayyida, 8-68	Játa. 6 32	Gájara 6 ti Chau-	Baniyás. 4:56 Brah-		Shaikha. 426	Jhojhas. 4·19	Bhangis 80
•	Bhimeh Sambal- herah,	Chamars. 16:91	Baniyás 8 5 2	Gújars. 8 28	Játe. 7 65	háne. 7 0	10808. 5:55	Sayyida. 3 86	Bhangis.	Kahára. 262	Jogis. 2-61
	Total of the six parganes.	Chamirs 17:3	Játa, 7·6	Baniyás. 5 7	Gújara,	Julia- baa 415	Brab- mans. 4 8	Sénis.	Kahárs. 3 6	Sayyida. 8 2	Bhangis 3·1

34. Notwithstanding the decline of the Sayyids which will be described later, the clan still owns more land than any other class, but instead of more than two-thirds, they now own a little more than one-third of the Ganges canal tract. Of the classes that have risen upon the ruin of the Sayyids the Mahájans are the most important, but the single proprietor who has accumulated the largest property is the Nawáb of Karnál.

Proprietary classes.

The chief proprietors in the tract with the area of their estates are as follows:—

Statement of chief landlords in the six parganas of the Muzaffarnagar district, the assessment of which has been revised.

j. Ma.		and ne-	Mand Officers A	Amir Husen	Nibái Chand, Mahá-	kám,	Ali, ann of Záfar	Hasnain, &c.,	mad Husen
	_	phews of Khan	Cha- Mu-	or Sam	jane of Mu-	Jata of Maula-	yab Ali of	Sayyida of Janki	of Ra-

35. The subjoined statement shows the area owned by each caste in the tract under report.

Extent of land ewned by different castes.

The cultivating castes—Játs, Tagas, Jhojhas, Rájputs, Rawas, Sánis, Garahs, and Gujars—are all represented, and although the holdings of the last-named caste are, swellen by the estates of the Rája of Landhaura, they as well as others have not generally lost ground in recent years, and have gained ground since the beginning of our admininistration.

Statement of constrakts by earter.

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Classes of cultiv ators.

36. There are few parts of the country in which less attention is paid to caste in the fixation of rents, and, except in the case of Sayyids, there is practically no caste which is ordinarily favoured. Here and there a village may be found in which a Rájput pays a lower rate, but it is distinctly unusual, and the indulgence may generally be accounted for by something besides caste, by some tradition of old proprietary right, or by the fact that the privilege has come down from an ancestor who served under the Sayyids, and who paid part of the rent of his land by military service. There is an unquestionable tendency for rents to be higher in villages cultivated mainly by the best castes, but in such estates all cultivators ordinarily pay alike, and favour is very seldom shown to Rájputs and hardly ever to Brahmans.

The great distinction which is observed is between occupancy tenants and tenants-at-will, and in not a few instances the most enlightened landlords have shown a tendency to pay but little attention even to this distinction, and to be satisfied with the same rents from the unprotected class that they are able to obtain from the protected tenants. And there can be little question that if landlords as a rule would look to their own pecuniary advantage, they would do wisely to hold less exaggerated views regarding the proper position of landlords, and to be less inimical than they ordinarily are to tenant right. For it is difficult for a community to become really prosperous unless the members of it have some security that they will enjoy the fruits of the improvements which they may be tempted to make; and, unless an estate is cultivated by prosperous tenants, it is difficult to obtain a full rental, and still more to collect that rental regularly and without arrears. After some experience of the management of estates in this district I am convinced that the acquisition of occupancy right is in the long run no disadvantage to the landlords; improvement is steadily but gradually effected, management becomes less difficult and expensive, balances are fewer and more likely to be realized.

37. The circumstance, therefore, that of the cultivated area of this tract so large a proportion is held by occupancy tenants as such, and that, comparatively speaking, so little is held by cultivators who are mere tenants-at-will, is in my opinion of great importance as tending to the prosperity of the country and as forming in some measure a guarantee of its continuance. The statement given at length in appendix II. is necessarily bulky, and it is well that some of its most important features should be discussed in succession.

Number of occupancy tenants and the advantages involved.

The areas occupied by each class of cultivators are-

•					Acres.	Percentage.
Cultivated by proprietors as such	•	•••	•••		53,735	20.32
Ditto ditto in the capacity of	oecupaney		***		1,825	0.68
Ditto ditto in the capacity of			100	•••	2,098	0.80
Ditto by occupancy tenants as such	***	•••	•••		129,478	48 95
Disto ditto in the capacity of	tenants-at-	will			19,959	7.55
Ditto by mere tenants-at-will	•••	•••	•••		57,419	21.70
			Total		264,509	100.00
Cotal cultivation by occupancy tenants	•••	***	•••		131,803	
Ditto by tenants-at-will	•••	•••	•••		79,471	

Nearly four-fifths of the cultivated area of the tract are in this way occupied by cultivators who have a more or less permanent interest in the land, for it is obvious that an occupancy tenant cultivating additional land as a mere tenant-at-will is ordinarily a more trustworthy occupant of the land and payer of the rent of it than a mere tenant-at-will would be.

The proportion of land held by tenants-at-will is largest in Muzaffarnagar, in which pargana there has been more litigation than in any other on the subject of

occupancy right; but it is likely that, even independently of this, the proportion of this class would have been very considerable, as it is in other sandy parganas in which there are few cultivating proprietors.

Occupancy right in revenue free-estates.

- The proportion of land held by occupancy tenants is greatly less in the revenue-free estates, and there is frequently extreme harshness of management in these villages. Indeed, there can be little question that frequent revisions of settlement are favourable to tenant right, and that revenue-free tenure does not conduce to the considerate treatment of the cultivating classes. In fact the history of this as well as other districts proves that the most substantial rights on the part of tenants are to be found in those neighbourhoods in which the Government demand pressed most heavily, and that the less burdensome assessments become, the more landlords disregard the claims of their tenants, and the more they are inclined to rack-rent them. The pressure of the Government demand makes union on the part of those who are affected by it desirable, if not absolutely necessary. When the common danger is removed or modified dissensions begin; the landlord does not require to be conciliatory, and his chief aim comes to be the destruction of all rights but his own, and the further increase of an income which has been materially enhanced by the consideration of Government. An absolutely rumous assessment ruins the cultivator as well as the landlord, but light assessments in no way secure similar consideration for the cultivator, and high assessments for long terms or in permanence, by freeing the landlord from Government interference, enable him, unchecked by the fear of immediate consequences, to press hardly on his tenantry.
- 89. There are no peculiarities in the proprietary tenures of this district, and the accompanying statement shows the number of estates in each parganah and in the whole tract held under the zamindari, pattidari, and imperfect pattidari tenures.

Statement showing the tenures on which estates are held in the six parganas, the assesesment of which has been revised.

			Zami	ndari.	Perfect	Imperfect	
No.	Pargana.		wned by gle family.	Owned by a number of co-sharers.	pattidari.	pattidari.	Total
1	Pürchapär Ditto musä	241 101	9	4	1	48	67 2
	Total		9	4	1	45	59
3	Mezaffarnagar Ditto muafi		n	9	5	42	8 Y
	Total		19	10		46	78
3	Bhúkarberi Ditto muafi		5 1	18	3 1	97	63 1
	Total		6	18	4	\$7	54
4	Jeoli Jánath		<b>\$1</b>	5	Ш	86	71
5	Khatauli Ditto muafi		35 4	20	9	38	97 7
	Total		89	20	9	36	104
4	Bhúmah Sambalherah		1.5	17	9	18	59
	Total of assessed villages Total of musit		96 5	78 1	37	198	404 16
	GRAND TOTAL		101	74	38	207	420

Of zamindari villages the majority are owned by single individuals or by small families, the descendants of a common grandfather not tracing their relationships to descent from a remote ancestor. In Muzaffarnagar as elsewhere in the neighbourhood, the bigha, not the rupee, is the unit by which shares are ordinarily calculated; but here even more than elsewhere the tendency is strong towards the acquisition of

Tenpres

Show noting but

separate possession, and although mahals have not as yet been greatly multiplied, informal and imperfect partitions have been generally effected.

40. In Purchapar the older communities have in former times shown themselves to be by no means wanting in strength and cohesion, but with the extreme pressure of the Government revenue and all danger from without, the urgent necessity for union has passed away, and most village communities, whether proprietary or merely cultivating, are less united than is desirable, and are almost entirely devoid of that submissiveness to the village elders which is to be seen in other less presperous districts occupied more generally by the less industrious castes.

In Ját villages more especially there is often a total want of village discipline, and there is so much jealousy and dissension that little could be done through the people themselves, and in the distribution of the jama and such like arrangements, the intervention of the settlement officer was very frequently required. Occasionally an emergency arises of sufficiently general interest to unite the community, but ordinarily there is little cohesion and no village discipline, and there is a great deal of trespass and petty pilfering which would not be allowed for a moment if the lambardars had the authority which they once had, and which they still retain in some

41. There were two classes of tenants recorded in the papers of Mr. Thornton's settlements whose rights gave rise to some discussion, and whose history is worthy of being recorded.

districts.

In 21 estates in this tract, and in some others beyond its limits, Mr. Thernton restricted the rights of the proprietors to the receipt of a fixed proportion, usually 18 per cent. of the Government demand. The tenants, on the other hand, were invested through the mukaddams with full control over the estate, the village site, ponds, barren land, culturable waste, and trees on the uncultivated land. The mukaddams managed the estate, and the proprietors, chiefly Sayyids, were reduced to the position of mere receipients of malikana.

It is clear that Mr. Thornton selected for these special privileges cultivating communities remarkable for their strength and antiquity, but it is also clear that many equally old and strong communities were, it may be for their own fault, passed over; and in most cases where the old records have survived it has been ascertained that these selected communities had not previously enjoyed any special privileges. The tenants paid crop and kind rents quite as high as was usual in the neighbourhood, and although according to the unquestionable custom of the country the tenants were allowed to plant groves, and may possibly have been permitted to sink wells, they certainly had not complete control over the uncultivated land, and their rents followed the general usage, and bore no fixed proportion to the Government demand.

During the period of more than 20 years during which this arrangement was maintained, the "sharah naqdi" villages flourished to an extent which in some measure justified Mr. Thornton's interference with the position of the proprietors. These villages were far above the average, prosperous and contented; the tenant, secure of his holding, steadily improved it: and even now, when the introduction of canal irrigation has gone far to equalize estates and to render much of the expenditure by tenants of little advantage, and when litigation and ouster have brought distress and ruin to not a few of the inhabitants, the old 18 per cent. estates still surpass most of their neighbours.

42. At the recent settlement, however, on a short demi-official reference, it was ruled that the arrangement made by Mr. Thornton was "altogether unauthorized and could not be maintained." The tenants were reduced to the position of ordinary occupancy tenants, and as the administration paper was held to be a matter which concerned Government and the landlords alone, the latter had the opportunity of legislating for their tenants, who remained for a time ignorant of the full change

Want of union and discipline in village communities.

Peculiar classes of tenants; the "sharah naqdi" villages.

Changes made in the constitution of the "she rah naqdi" villages.

which had taken place. Later, tenants planting trees in accordance most probably with ancient custom, and unquestionably in accordance with the village constitution for more than 20 years, were ruthlessly ousted from their holdings, and it was at length discovered that the only vestige of their ancient position which the landlord made law of the wajib-ul-arz had left them, was that the mukaddams were still held responsible for criminal offences committed within the village boundaries.

The history of these villages is a not unfair example of the injury that has been done by violent changes in the policy of our revenue administration, and in the last years as in the first of our rule there has been evinced the same tendency to rush to extremes and the same unwillingness to allow calm investigation to precede decided changes. There seems to be no doubt that in the settlement of most of these villages Mr. Thornton went much further than any evidence warranted. The cultivating communities were no doubt strong and long established; it is unquestionable that the tenants planted groves, and it is probable that they sank wells, but it is absolutely certain that they paid full rents to the landlords: and there is nothing in the papers of the previous settlements, where they survived, to show that the tenants ever exercised any control over the waste land. The arrangement, no doubt, worked admirably, but more moderate intererfence would in all probability have done as much for the tenants without injuring or alarming the landlords. And the extreme measure of one settlement was followed by an equally extreme measure at the next revision. It was assumed without any sufficient investigation that tenants who had for generations exercised certain rights, and who for more than 20 years exercised full control over the whole of the village lands, ought to have no rights except the barest privileges of occupancy tenants. That much perverted document, the administration paper, was made the vehicle for class legislation, and was accepted without question by all the courts, civil, revenue and criminal; and everything that could well be done was done to rain the most prosperous villages and the most meritorious tenants in the district.

Procedure at present vision.

- 43. When the new administration papers were drawn up it was impossible to obtain the signatures of both parties to the obnoxious classes, and eventually the landlords admitted the right of the tenants to some of their old privileges and were satisfied to yield to the tenants the fullest control over the land for which they paid rent, and to obtain possession of the waste land for which rent was not paid, and an equitable rent-roll.
- 44. The second class of privileged tenants had their origin not in the views of official theorizors, but was traceable to hereditary claims of kindred with actual proprietors, to the compromise of old disputes, or to a share formerly undertaken in the responsibilities of the proprietary body. Here, too, the proceedings of the settlement of 1863 had increased the difficulty of arriving at a satisfactory solution of the question at issue. It had been promptly assumed that persons paying owners' rates must necessarily be proprietors, and the occupants of these lands were accordingly entered as proprietors. The civil courts, however, took a different view of the question and the entries had to be changed, and the question of rent was postponed until the pending question of permanent settlement or the revision of that recently concluded should be settled.

The origin of these rent-rates was ordinarily one of three :-

- (1.) When proprietary rights were conferred in the early years of our administration on cultivating communities, some members of a brotherhood had declined to accept the share that would have fallen to them in the management of the village, and continued to hold as cultivators, paying by reason of their connection with the proprietary body the same rates as owners.
- (2.) Ex-proprietors who had sold their shares ordinarily to members of the brotherhood had been allowed to cultivate their seer lands on the condition of the payment of the revenue due from the fields in their possession.

Tenants holding at mers' rates. (3.) In the old days, when the land was dry and the assessments were severe, the proprietary communities were glad to associate with themselves tenants, whether of their own or ether castes, who, in consideration of the help they gave in bad years, were allowed to hold their fields on the same terms as the proprietors themselves.

The first and third classes of these privileged tenants are met with at all frequently in pargana Purchapar alone, but there were several instances of the second class in the large Jat township of Bhakarheri. Sayyid ownership had left no room for such rights, and anomalies lasted longest in the pargana which had come last under our revenue administration, and in which village communities most generally retained proprietary rights.

There was some difficulty in deciding what terms were suitable for such persons paying khewat rates. It had been ruled, and the ruling had been accepted, that payers of revenue rates were not necessarily owners, and under the rent law then in force there was no status between that of the proprietor and that of the occupancy Where feeling had been embittered by litigation, the landlord naturally contended that a tenant who had rewarded past consideration by a claim to proprietary right could hardly now hope for better terms than the law gave him. But in many villages there had been no litigation: the decision regarding Bhúkarheri was accepted in Purchapar, and the proprietors were anxious to secure fair rents, not to press unduly upon old tenants. And an explanation of the terms which were likely to be granted to ex-proprietary tenants by the new revenue law bill farther helped the parties to a satisfactory settlement of the rent question, and eventually a privileged rent-rate, ordinarily of 13 annas in the rupee of the rates charged to occupancy tenants, was accepted in several villages. In such cases a fair precedent has enormous influence, and the terms which were readily assented to by landlords and tenants who were at peace among themselves, were gradually extended to the townships in which there had been the most angry litigation.

Ex-proprietary rates were obviously suitable to persons who had lost proprietary rights or who had refused to accept proprietary responsibilities; and tenants, on the other hand, who in times of need had borne with the proprietors the burden of severe assessments, had claims to ex-proprietary privileges which a community of cultivating proprietors was not unwilling to acknowledge. Before the land revenue law bill passed into Act XIX. of 1873 some of its most important provisions had been weakened or left out, and by waiting the landlords might have got more than they succeeded in obtaining. On the other hand, they obtained in many cases higher rents than they had ever levied, and in all higher rents than had been paid to them for years, and it is likely that they got as much as in equity they had any ground to look for.

The people of the Ganges canal tract of Muzaffarnagar are on the whole distinctly prosperous, and where they are not so, the absence of prosperity is owing to the character of the people rather than to any want of opportunity of earning a certain and sufficient livelihood. The population is not more than sufficient for the wants of the country. The Ganges canal has not only insured the land against frequently recurring droughts, but it has enormously extended the growth of the best crops: and in nearly every village there is now that variety of crop, and especially that extent of sugarcane which is such a support not only to the agriculturist proper, but to that large labouring class on the prosperity of which the prosperity of the cultivator so much depends. In certain dry ill-watered parts of the country the labouring classes are seldom thoroughly well off, because among other reasons there are periods of agricultural idleness. In this tract there is no such period; even before the first fall of rain the rice cultivation has begun, and as soon as the late harvest of the upper doab is over the rice crop has to be thought of. All through the rains there is neverceasing work : land has to be ploughed and the remaining rain crops sown; then there is the ploughing for the rabi, and eventually the kharif harvest and the rabi sowings

The terms eventually secured to tenants paying knewat rates.

General condition of the people. Sufficiency and constancy of agricultural employment. coming together give as much work as can be managed by the whole ropulation. Hardly has the kharif crop been harvested when the cane harvest begins, and if the work at the sugar mills is delayed or interrupted by rain, the cotton, urd, or maize fields are ploughed up: and any labour that can be spared of men or cattle is welcome in the fields, for the land has to be prepared for the cane sowing and much laborious ploughing has to be gone through.

If there is any leisure in the year it is in the month of March, when the cane sowing is generally ever and the spring crops are hardly ripe; but the interval is a short one, for barley ripens comparatively early, and in April the wheat and gram harvest begins. The work of harvesting and preparing for the market the spring crops affords full occupation until the ploughing for rice begins.

There are in the year three harvests—that of the ordinary kharif crops, the sugarcane harvest, and that of the spring crops, and all three furnish general and remunerative employment to the great mass of the labouring population. The labouring class in this tract, therefore, has the advantage of continuous employment throughout the year, and of peculiarly profitable employment at short intervals; and they are not exposed to the loss, distress, and danger caused by droughts. As to the landowning and cultivating population, even before the introduction of canal irrigation the presperity of these classes was marked, wherever their own industry and the assessments admitted of it And even where irrigation has not penetrated, there are enough communities both of proprietors and cultivators to show that, without irrigation of any kind, energy and thrift can in this district render people fairly secure, even when their land is wholly dependent on the seasons. But canal irrigation has extended the prosperity of the best cultivating castes to those who are less industrious, and a moderate amount of labour and thrift are now sufficient to secure that prosperity which was in former days within the reach of the most industrious alone. The generally comfortable circumstances of the people are shown by the goodness of their clething and of their food. The labourer in Muzaffarnagar dresses better than the average petty proprietor of the eastern districts, and wheat now forms a much larger proportion than of old of the food of the poorest classes.

Indebtedness.

But greatly as the agricultural community has prospered in late years, it is very questionable whether their indebtedness is any less than of old-indeed, it would seem to have increased; and just as ordinarily the proprietary community owes more money than the cultivating community of the same caste close by, so the increased credit due to recent agricultural prosperity has admitted of increased borrowing and has encouraged more than the old recklessness in expenditure. If the people are asked how they come to owe more when they are no longer liable to losses from drought, and when their profits are both larger and more asssured, they will inevitably trace their indebtedness to failure of crops, the untrustworthiness of the canal supply, the dearness of cattle, or other cause. But there can be no doubt that the extravagance of the people has more than kept pace with their increasing prosperity, and the reckless expenditure incurred in the celebration of weddings is, in my opinion, a very serious cause of the increasing indebtedness of the people even in the most prosperous villages.

The poorest class, the landless Sayyids.

48. The poorest class in many respects of the community is formed by the broken-down Sayyid families. They or their fathers have squandered their ancestral property, and the representatives of some of the oldest and most powerful Sayyid houses new subsist by cultivation, for which employment they are but ill-suited, or by serving as chapprasis or mazkúris. But no amount of agricultural prosperity can be of much use to a class which is proverbially reckless as long as any portion of the ancestral property is retained, and is proverbially wanting in agricultural industry, when the career of extravagance has ended in inevitable ruin.

Indebtedness may keep pace with prosperity, but the improved credit of both proprietor and cultivator is proved by the lower rates of interest which are now

Rates of interest.

charged. Small sums can now be borrowed by proprietors at from 12 to 18 per cent. per annum, and cultivators of good character can obtain loans at 15 to 24 per cent. These rates are still high, but are much lower than those formerly charged, and than those prevailing in less prosperous districts.

- 50. Besides that of sugar, which is practically an agricultural operation, the only manufacture of any importance is that of blankets, which are well known for their excellence. Country cloth is of course manufactured to some extent, but less than formerly, and English goods are coming more and more into use.
- 51. The exports of the district in general, and of this portion of it in particular are almost entirely of agricultural produce. Blankets, which form the sole manufacture of any importance, are sent out of the district to a great extent for use in Government departments, but by far the most important and constant exports are those of grain and sugar. The course of the trade in grain is ordinarily eastward, while that in sugar is to the south and west, and in both directions the construction of railways has rendered fresh markets available for the produce of the district. In former days Bhawani in Hissar was the great mart to which the bulk of the sugar was exported, and both from the Panjáb and Rajputana markets return cargoes of salt, the chief import, were and are still received. It is estimated that six lakhs of maunds of grain and about the same amount of sugar is available for export each year. The surplus quantity of cotton produced is comparatively small, and the yield of oil-seeds is in sufficient for the wants of the district.
- There is nothing in the system of agriculture in this district that is exceptional, but several changes have been introduced here as elsewhere owing to canal irrigation, and in part on account of the consequently increased value of land. no respect has the change been greater than in the cultivation of sugarcane. the opening of the canal the great bulk of this crop was sown on unirrigated land, and special efforts had to be made to facilitate the thorough saturation of the soil by rain and the retention of the moisture. When, as was ordinarily the case, the field prepared for cane had been under a kharif crop, the land was ploughed in time to obtain full advantage from the cold-weather rains; it was ploughed again after them, again before the rains, at intervals during the rains and then through the cold weather up to the time of sowing between the middle of February and the middle of March. In this way land was ploughed 15 to 20 times, and each ploughing was followed by the use of the merah or clod crusher, or in the case of firmer soil by the lakar or roller. The fact that so much ploughing had to be gone through when the soil was more or less dry, and that the most thoroughly pulverized soil protected the concealed moisture most efficiently from the sun's rays, was probably the chief reason why more or less sandy land was generally selected for the growth of unirrigated cane.
- 53. The great bulk of the cane crop now-a-days, to a far greater extent indeed than the crop statement indicates, follows immediately after a kharif crop. This is called bastua east of the West Káli, and datoe to the west of the river, and also on its eastern bank, in opposition to bahan and pandrah respectively, expressions applied to sugarcane sown after fallow. But the word datoe is now no longer specially applicable to a crop which follows not only on juar and Indian-corn; and in many villages much greater detail is entered into, and the cane crop is called urdin, biraund, munjia, dhankar, and datoe, according as it follows urd, cotton (bari), munji, dhan, or one of the crops with thick stalks, Indian corn or juar.

In the khasrahs sugarcane is recorded as occupying 18,520 acres, and 2,731 acres were entered as ploughed after crop for the cane crop of the next season. But entries of this kind are always defective; in villages taken up early in the season the kharif crop was still on the ground, and at best second crops are frequently omitted, and still more is the entry of ploughing for next season's sugarcane likely to be neglected. The land ploughed throughout the year for sugarcane is on the other hand more likely to be accurately entered, and is liable to be over rather than under-stated owing to

Manufactures.

Trade.

System of agriculture.

Change in sugarcane cultivation caused by the canal.

the neglect or omission to enter the kharif crops which may have occupied the field before it was ploughed up, and the area so recorded (4,952 acres) is almost certainly a sufficient statement of the land devoted to sugarcane after fallow.

In this way, of the sugarcane crop formerly almost invariably grown after fallow, only one-fourth is now sown in land which has rested, while three-fourths follow immediately upon a rain crop. For cane cultivated in this manner in irrigated land 10 to 12 ploughings are sufficient, so that if the area under this crop is greatly more extensive than of old, the average amount of labour devoted to each acre of cane-land is distinctly less, unless, indeed, the increased quantity of the average crop restores the balance by furnishing a greater weight of cane to be pressed.

With the general change in the method of cane cultivation a less general change in the kind of cane grown has taken place. At last settlement the small thin cane (daulhu) was all but universal; now, more especially in the southern parganas, it has been very generally superseded by the larger Meerut cane generally called gagaul.

Facility of irrigation has even more completely changed the character of the rice cultivation in the Ganges canal tract. Throughout this portion of the district, the area devoted to rice amounted most probably to nearly 4 per cent. of that under the plough. This area has now been more than doubled, and what is even of more consequence, the kind of rice and the manner of its cultivation have both been greatly changed. Before the opening of the canal, rice was ordinarily unirrigated, and, except in the khadir, rice grown was almost invariably of the less valuable variety. The great bulk of the crop consisted of dhan, the coarser rice, still grown to the extent of about one-third of the whole crop. A finer rice, a variety of munji named naora, was also grown to some extent. When canal water had changed the circumstances of the country a variety of múnji called biramchári was introduced, it is said by a fagir from the Dun, into one of the best rice villages in the district. Succeeding in Makhiali of pargana Muzaffarnagar, its cultivation spread, but the rice was found to deteriorate, and eventually the Ramjiwan munji gradually superseded it, and is now almost the only rice sown in irrigated land on this side of the district. This rice is distinct from the chahora of the Eastern Jumna canal tract, and is invariably sown broadcast, while the other, as its name indicates, is transplanted from a nursery. The difference in the method of cultivation is probably as much owing to a want of population in the Ganges canal tract as to any other cause.

Notwithstanding repeated and more or less successful experiments, Carolina rice has hitherto failed to commend itself to the people. There is no doubt that with care and plenty of water it can be made to yield a large crop, but it seems equally certain that the same amount of trouble and expense devoted to the Ramjiwan variety brings still larger returns. Some experiments tend to show that Carolina rice can stand flooding better than other varieties, and if this be confirmed, it may prove useful in the Ganges valley. It seems likely, however, that on the upland the Ramjiwan munji, originally introduced by a Government department, will hold its own against its recent rival.

55. Intimately connected with the extension and improvement of rice cultivation is the increase in the area of twice-cropped land. At last settlement the proportion of this land throughout the district amounted, exclusive of that in which sugarcane was grown after crop, to 3½ per cent., and it is practically certain that the average of the tract under review was in this respect distinctly less than that of the district at large. The percentage is now 5, and it may be assumed that the area of twice-cropped land has at least doubled. Indeed, I have little doubt that, owing to a variety of causes, the twice-cropped area, as well as that sown with cane after crop, has been largely under-stated.

But, even assuming the twice-cropped area to be fully entered, the extent of land ploughed for sugarcane after crop is obviously under-stated, and must be sufficient

Rice cultivation.

Twice-eropped land.

with the help of the more fully stated area of land ploughed for sugarcane after fallow, to provide for the not excessive area of cane recorded in the khasrahs. The requisite addition to the acreage ploughed for cane after crop would bring up the extent of land cultivated without a rest to nearly 10 per cent. of the whole area under cultivation and to about 20 per cent. of the whole area under irrigation. But as a matter of fact the twice cropped area is almost certainly under-stated, and the proportion of land sown immediately after a crop must be considerably greater even than this largely corrected estimate.

56. The subjoined statements give the average ascertained produce per acre of the various crops throughout the tract, and that estimated by selected zemindars and patwaris of distinctly good villages. The persons whom I consulted were five in number—three zemindars and two patwaris. Of the former, one was a cultivating Jat, the second a Rajput of position, the third estimate was that of a Taga brotherhood. Of the patwaris, one was the village accountant of an estate long under my immediate management, and his statement represents the opinions of the Sayyid owners of the remaining share and of the Jat cultivators as well as of the patwari himself, a sharer in a larger Sheikh township close by. The second patwari was selected for his trustworthiness and intelligence.

Average produce.

Produce per acre in pounds of the principal crops as ascertained by experiment.

	,	<del></del>										<u> </u>			<del></del>
Circle.	Soil.	Sugar cane.	Cotton.	Múnji.	Dhán.	Makki,	Juhr.	Urd.	Bájra.	Motb.	Mung.	Gowsr.	Wheat	Gram.	Barley.
I. }	Wet loam Wet sandy loam Dry loam Dry sandy loam Bhúr	1,046	278 207 83	1,654	1,553 1,250 1,400 932	787 507 <b>66</b> 5	592 417 945 652 466	815 898 770 388	 434 467 638	 874 527	 594 419	932 800	1,582 1,052 1,095 796 344	1,702 1,648 1,326 1,121 416	1,851 1,258 995 669 466
II,	Wet loam Wet sandy loam Dry loam Dry sandy loam Bhúr Wet loam	2,785	274 158 	1,294 1,024 708 684	1,272 1,108 819 585	511 562 615 867	538  704 467 	1,066 826 680 701	200 481 510	324 879	 495 358	7 <b>9</b> 0	1,359 984 790 799 499	1,233 1,428 969 957 784 907	1,106 941 1,081 865 566 748
т. }	Wet sandy loam Dry loam Dry sandy loam Bhúr	1,942 2,600	355 355 35	834	655 666 400	320 328 600 466	583 349 154	606 718 626	356 452	 400 266	638 266	666	800 608 766 890 255	889 538 590 467	539 632 554 565
Average for each soil.	Wet loam Wet sandy loam Dry loam Dry sandy loam Bhúr	3,036 2,208 2,600 1,046	249 152 102	1,859 784 708 684	1,289 1,004 962 639	539 479 626 271	562 417 727 489 310	940 777 723 575	317 48. 538	366 877	 544 357	778	1,247 879 884 662 366	1,280 1,329 944 889 555	1,035 913 903 696 532
	General average	3,422	188	1,052	973	522	528	736	412	378	450		807	998	822

Produce as estimated by zemindars, cultivators, and patwaris in selected good villages.

	Sugar-	Cotton.	Uhán.	Munji.	Makki.	Juár.	Urd.	Béjra.	Moth.	Mang.	Wheat.	Gram.	Barley.
Bhúkarheri	2,666	333	1,600	2,000	600	600	836	668	800	668	1,832	1,978	1,000
Belrah, pargana Bhúkar- heri.	2,666	178	2,132	2,132	700	798	668	400	298	533	1,201	1,801	800
Jasaulah, pargana Kha- tauli.	2,666	178	1 600	1,668	1,002	860	668	668	600	668	1,832	1,382	1,066
Chalsinah, pargana Kha- tauli.	3,200	178	1,332		801	400	533	400	538	266	1,600	800	1,600
Kharkheri, pargana Púr- chapár.	2,400	266	1,300	1,600		600	668	668		•••	1,332		1,833
Average	2,719	226	1,593	1,850	776	689	674	561	<b>558</b>	634	1,859	1,496	1,159

Notwithstanding the want of uniformity in the figures, it is so far satisfactory to find that the highest ascertained produce is equalled by the estimate from one or other of the five villages, and estimates are often given largely in excess of any of those which have been recorded.

57. My estimates for the rabi grains are on the whole slightly higher than those given by Mr. Thornton in the appendix No. III. to his report, and it is well that

Comparison of new a old statistics.

I should remark here that the average of his estimates is of no use for comparison with other districts, unless the proportion of dry and sandy land is similar. When the average of irrigated land, the average of dry land, and the produce of bhúr are stated separately, it is found that the discrepancies between Mr. Thornton's estimates and those for other districts are not, when allowance is made for the large proportion of unirrigated and sandy land, so great as has been supposed.

Appendix No. III. of Mr. Thornton's Settlement Report.

		Wheat			Barley.			Gram.	
Denomination of soils.	Number of scres of which the kankut was made.	rate or the				Average rate of the whole pro- duce per		duce per	Average rate of the whole produce per acre in its avoirdapois and decimals.
Misan irrigated, Do. unirrigated, Do. unirrigated Dókar irrigated Do. unirrigated Bhúr Total	1,017 523 461 6,719 29 264 2,391	14 87½ 10 18½ 11 21¾ 8 19 10 18¾ 8 28½ 6 33¼	1,021 124 749·6·8 914·475 769·961	50 16 23 328 2 30 570 1,019	13 821 9 201 8 39 9 8 8 8 7 30 10 23	1,924·575 841·446 793·901 813·804 727·004 685·541 935·439	9 211 16 1,212 289 398 2,185	9 391 9 181 9 48 7 48 5 351 6 131 7 21	882 9 19 836 470 806 615 629 701  520 790 560 595
'Value at average prices of average produce per acre.		Rs. a. p. 11 0 0	•••		Rs. a. p.		940	Rs. a. p. 6 11 0	***

Distribution of crops.

58. This distribution of crops is shown in full detail later on in this report, but the following abstract is given here:—

	l.				l land.	Revenue-j	ree land.	Total cultivation,		
	Crops.			Area in acres.	Per- centage.	Area in acres.	Percent- age.	Area in acres.	Percent	
Sugarcané				16,762	64	1,758	84	18,520	61	
Cotton		***		9,391	34	797	4	10,188	34	
Műnji or fine i	rien	•••		10,883	4	1,050	51	11,433	4	
Dhán or coars		•••	•••	7,236	24	608	3	7,844	21	
Maki or India		***		2,119	4	. 248	13	- 2.862	i i	
Juár		***	•••	3,529	าเ	249	1 7 1	- •	11	
Chari	•••	•••	***				1 11	3,778		
Gowar	•••	•••	•••	19,264	71	1,570	7 1	20,834	73	
Urd	•••	•••	***	2,671	1	299	11	2,970	و ا	
	***	•••	•••	23,567	8	1,997	10	25,564		
Múng	•••	***	•••	884	1 1	184	1 1	1,068		
Moth	***	***	•••	15,541	54	853	1 4.	16,894	54	
Bájra	•••	•••	•••	33,882	122	1,198	54	<b>35,08</b> 0	121	
Indigo	•••	•••	•••	33	•••	74	1 1	107	**	
Other kharif	crops	••• '	•••	2,140	#	90	1 3	. 2,280	1	
Ploughed for	sugarcane	***	•••	4,598	18	359	14	4,952	12	
				151,995	571	11,829	56	163,324	, 57 ₺	
Wheat	•••	•••		68,999	261	7,869	361	76,368	20	
Gram	•••	•••	•••	8,992	31	464	21	9,456	34	
Barley	•••	•••		18,272	7	402	2	18,674	6	
Wheat and gr	ram	•••		1,010	1 1	67	1 1	1,077	1	
Wheat and be	arley	•••	,	10,877	41	826	ا آد	11,203	4	
Peas	***	•••	•••	1,170	1	89	1	1,259	1	
Bejar or mixe	ed crops	•••	***	282	*	8		290	l i	
Masúr		•••		75	•••	8	1	83		
Other rabi cr	BGO	***	•••	934	1 1	87	1 "1	1,021	1	
Ploughed, bu	t not sown	•••	•••	7 <b>3</b> 0		18	1	748	į .į	
				1,11,341	421	8,831	431	120,172	421	
Vegetables	•••	•••	•••	166	\ <u> </u>	49	1	215		
Tobacco	***	•••		82	•••	3	*	85		
Poppy	100	•••	•••	14		1		14		
Other garden		•••	•••	399		32	1	431	•••	
				661	1	84	1	745	ł	
Total cultiva	tion	•••	•••	263,997	100	20,244	100	284,241	100	
Dofasli	***	•••	•••	12,341	5	1,483	71	13,824	5	

59. The percentages of the best crops are somewhat better in the revenue-free land, but the revenue-free area is also on the whole superior in soil to that which is assessed, and there is only a small margin which can have been affected by the substitution of worse for better crops on account of settlement. The statement is fairly trustworthy, although in this district as elsewhere the earlier kharif crops, such as Indiancorn and rice, which are cut before field operations are well begun and are replaced by second crops, have probably been under-stated. The area under cane has also been affected to a certain extent by the high prices prevailing for grain during the progress of settlement operations, and the consequent tendency to devote to cereals land which under other circumstances might have been sown with sugarcane.

Remarks on above statement.

The areas under the poorest crops, especially distinctive of bad soil, bájra and moth in the rains and barley in the cold weather, are, when the extent of sand is considered, very small, and go to prove that careful cultivation has extended to much of the poorest land in the tract.

The smallness of the juar crop and the now restricted area of waste necessitate the devotion of much land to the fodder crops, chari (or juar sown thick) and gowar. Arhar is one of the least important crops in the district and is rarely seen except in the southern parganas, and even in them the return is very precarious, as the plant is liable to destruction by frost.

60. The chief agricultural features of the tract which need be noticed here, in advance of the greater details given further on, are —

Chief agricultural features of the tract.

- (1) The unusually large percentages of sugarcane, rice, and wheat, notwithstanding the extent of poor soil.
  - (2) The almost complete absence owing to the climate of indigo and arhar.
- (3) The smallness of the juar crop and the consequently considerable area devoted to fodder crops.

In many districts in these provinces an increase in the percentage of the rabi crops is looked upon as a sure sign of agricultural progress. In this district improved cultivation and increased facilities for irrigation have had a contrary effect, and in some of the best villages in the tract the extended cultivation of cane, rice, and fodder crops have left little room for wheat. The balance is somewhat redressed by the second crops, chiefly gram, but even with this addition the proportion of the rabi to the kharif has diminished rather than increased.

With correction for twice-cropped land, the proportions of the different crops are as follows:—

			Crops.		· · · · · · · · · · · · · · · · · · ·		Proportion
	(	Sugar-cane	•••	•••	•••	•••	6
	i	Cotton	•••	•••	***		81
		Múnji or finer rice	•••	•••	•••		4
	i	Dhán	•••		***	***	24
		Makki	•••	•••	•••	***	
		Juár	***	•••	•••	•••	14
Kharif	∢	Chari	***	•••	•••	•••	2 2
		Gowar		•••	***	***	(
	1	TTmd	•••		•••	•••	9
	1	Mine	•••	•••	•••	***	1 -
	i	Moth	•••	•••	•••	•••	1 .
	1 1	Rájes	•••	•••	•••	•••	54
		()ther eres	.•••		•••	***	12
	_	Other crops	***	•••	***	•••	- <del>-</del>
				Tot	al kharíf	•••	54
	5	Wheat	•••	***	•••	•••	26
	1	Gram	•••	•••	100	•••	61
		Barley	•••	•••	•••	•••	64
Rabi	⊀	Wheat and barley	•••	•••	***		31
	1	Peas	'	•••	•••		1
	1	Other rabi crops	***	•••	* • • •	***	1
	1			T	otal rabi	•••.	44
		Second crops	•••	•••	•••	•••	2
		•		Gra	and total	•••	100

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## CHAPTER II.

### GENERAL AND FISCAL HISTORY.

### General History.

Limits of proposed sketch.

In a report of this kind it is needless to go into more historical details than are necessary to throw light upon the present condition of this portion of the district, its tenures, and the character of its population.

Early inhabitants.

2. It would seem that before the Jat immigration the tract was occupied by Rajputs, with a sprinkling of Brahman and Taga settlements. The wave of Ját invasion seems to have been strong enough to obliterate to the south almost every trace of Rájpút and Taga ownership, and although the Jats did not settle in the eastern portion of the district in compact bodies as they did farther west, they were strong enough to drive out or to obliterate the people who possessed the land before them, and almost without exception Rájputs and Tagas are to be found as independent communities in the sonthern portion of the tract at least, in the poorer lands near rivers, to which they may have been driven when the immigration began, or to which they may have returned or migrated when its first force was spent. But even to the south of the tract the Jat immigration was in no way so strong and compact as farther to the south and west, and it seems to have spent its force before it reached the north, or it may have been that a country so dry and sandy offered few attractions and was suffered to lie waste, as no doubt was the case with the sandier tracts. In Pur Chapar accordingly we find extensive Taga settlements which make no boast of pre-historical occupation, but date their arrival not earlier than the eleventh century, and in the name of their tribe, Bikwan, preserve the memory of the country, Bikanir, from which they migrated. Side by side with these Tagas are Gújars, who seem to have appropriated generally the lands which the Jats did not occupy, and scattered colonies of Jats, chiefly of the less honourable division, and some of them quite recently established.

Settlement of the Sayyids of the Barna. 3. Before the Muhammadan invasion, as after it, the portion of the Muzaffarnagar district lying between the Ganges and the West Káli was immediately subordinate to the central authority at Delhi. There were few local chiefs, and fewer still of any note; nor does the Muhammadan conquest seem to have made much ontward difference at first in the condition of the people. For although the district was frequently traversed by Muhammadan armies, no Muhammadan settlements of any importance seem to have been made until the arrival of the Sayyids, and names like Tughlakpur and Fíruzpur seem merely to indicate incidents in the campaigns of the Pathán monarchs, and if they commemorate any occupation, that occupation was by the ruling power for strategic purposes, and not the settlement of Muhammadan residents.

Dates of the Sayyidse immigration

The Sayyids of the Barha, who did so much under the empire to confer distinction on the neighbourhood, are stated by tradition to have settled in the district seven generations before the time of Akbar. They, like the Sayyids of Bilgram, trace their descent to Sayyid Abul Fera, four of whose sons settled in the Panjáb in towns which are now in the Patiála territory-Kundli, Chatbanur, Tihanpur, and Jajner. Tradition makes the four sons migrate still further eastward into this district; but here tradition and genealogies are in antagonism with history, and it seems much more likely that the Sayyids settled down in the Patiála villages until a time came when either the old lands proved too small for the increasing clans, or the fact of some of the members being in the service of the Delhi monarchs made a residence nearer to the capital desirable. Nor is there any sufficient ground for the assertion that the representatives of the four clans came together, or that a single representative of each settled in this district. The oldest inscription that has been discovered on a tomb at Sambalherah seems to have been unknown even to the Sayyids of the same clan who have written regarding the history of their ancestors, and who in their genealogical tables place at the same distance from the renowned Abul Fera the Salar Aulia of Sambalherah, who died in 1375 A.D.,* in the reign of Firoz Shah, and the stout old soldier Sayyid Muhmúd, who served under Akbar.

But whatever discrepancies there may be in the various traditions, and however antagonistic some may be to ascertained history, it seems likely that representatives of the four kháps or clans of the Sayyids of the Bárha settled in this district about the same time, and that the first settlement of the Kundliwáls was in Majherah, of the Tahánpuris in Dhásri and Kamherah, of the Chatraoris in or near Sambalherah, and of the Jajneris in Palri. With the exception of the last named village, all the earliest Sayyid settlements were made in the sandy tract of the old Sambalherah pargana and in its immediate neighbourhood, and it was not until later that the Sayyids obtained, a footing in the richer portions of the district. And even tradition allows that the earlier acquisitions were made through the good will of Hindu owners, whom the Sayyids placed in various ways under obligation.

This tends to show that the fertile portions of the district were then fully occupied, and that the Sayyids came into the district anxious for a settlement within an easy distance of the capital, but not yet holding such high offices at court as would enable them to obtain possession of fertile townships already settled. And this view is confirmed by the fact that a family of Gurdezi Sayyids, who are allowed to have come into the district before the Sayyids of the Barha, settled on the edge of the same wilderness of sand, but nearer the better land, and close to old Jat and Rajput settlements. The immediate neighbourhood of their co-religionists would be an additional inducement to the new comers to occupy the land nearest to them which could be obtained.

As times passed on, the Sayyids gradually pushed their way into the surrounding country, and later their distinguished services to the State brought them very substantial rewards, both at a distance and in the neighbourhood of their homes. Tradition assigns to members of the clan positions of trust in the service of Humayun, and dates from his reign the familiar and often contemptuous nicknames by which various families are distinguished; but here, too, tradition is not only unsupported by history, but is hardly reconcilable with history, for many of the families thus distinguished did not branch off from the parent stems until long after Humayun's time.

- 4. The long list of distinguished officers of the empire begins with Sayyid Mahmud Muhammad, a Kundliwal, who was a man of some distinction when he joined the army of Akbar. His services and those of his family began the greatness of the Sayyids of the Barha, and the marble and sandstone tombs at Majherah still keep in remembrance the names of the blunt old soldier, and of his sons and other relatives, who did so much for the reputation and the prosperity of the clan. The Kundliwals obtained extensive grants of land in the neighbourhood of Majherah as well as elsewhere, and branches of the family were established at Mawana in Meerut, and across the Ganges at Chandpur and Jahanabad in Bijnor. But the period of their power and influence seems to have been short, and under Shahjahan the Tahanpuri branch of the Sayyids attained to greater power than had ever been reached by the rough and ready soldiers of the Kundliwal branch.
- 5. One branch of the Tahanpuri Sayyids was at an early period of their residence in the district called in to assist the Brahmans of the ancient town of Jánsath against the Játs who had settled there, and eventually the Sayyids not only expelled the Játs but took possession of the town. Other branches, too, spread to the south and west, and many members of this clan entered the imperial service, and not a few rose to eminence. But the most notable of all was Sayyid Abulmazafar, commonly called by his title Khanjahán, the minister of Sháhjahán, who received a grant of 84 villages

The earliest Sayyid settlements.

The rise of the Kundliwal branch.

The Tahanpuri branch.

in Khátauli and Muzaffarnagar and an amount of revenue-free land, which has ever since materially restricted the state revenue in these parganas. Other members of the family, too, acquired through good service and court favour the rest of Muzaffarnagar and passed beyond the Káli into Bagra.

And finally the Sayyids of Jánsath became for some years the rulers of Hindustán, and under the nominal authority of Farukhsír and his short-lived successors, Sayyids Husen Ali and Hasan Ali of Jánsath, were the chief power in the State. Their acquisitions in this district were not, however, extensive, and the downfall of the family was so terribly complete that the hold of the Sayyids of Jánsath on the villages to the north of this district which they had acquired must have been early weakened, and was not eventually maintained.

The Chatraori Sayyids.

But still another branch of the Bárha Sayyids remained, which was destined to enjoy a period of less brilliant, but still respectable, distinction. The Chátraori Sayyids had from Sambalherah and Kaithorah spread over the greater part of Bhúmah Sambalherah and Bhúkarheri, and had even received grants of land in Jánsath and Khátauli. In the final struggle with the Jánsath Sayyids the chief Chátraoris sided with Muhammad Sháh, and Sayyids NaCrat Yár Khán and Shahámat Khán and many others received rewards for their services. The descendants of Shahámat Khán are the only Sayyids of the Bárha who now retain the title of Nawáb. The Chátraoris, too, remained to the last in the service of the empire, and the Sayyids of Mornah in Bhúkarheri received grants of land to the west of the Káli in Chartháwal.

The Jajneri branch.

6. The Sayyids of the Jajneri branch never attained to eminence, and as they now hold land in Bidauli, and have lost their small possessions in the east of the district, they do not come within the province of this report.

Position of the Sayyids at the decline of the empire.

7. The beginning of the decline of the empire then saw the descendants of the settlers in the sand waste the masters of the whole of the eastern portion of the district, and its only and acknowledged aristocracy. Either by grant, purchase, or as it would seem in some cases by the voluntary act of village communities, who felt safer under the protection of a powerful chief, they were the acknowledged landlords of the whole tract, with the exception of the Shekh townships which Imperial piety had scattered over the district, and of the cluster of villages round Jauli occupied by But although the Sayyids were unquestionably masters, the village communities were still strong and powerful, and, as events showed, were ready to assert themselves alike in times of peace and of disorder. The Sayyids held the majority of their estates as non-residents, but branches of the various families had scattered themselves over the country, and especially in the neighbourhood of the original settlements had established themselves in villages of their own. In many cases, no doubt, Sayyids settled in townships in which there were no resident cultivators, or in which the residents were few and weak, but in several instances they established themselves in the midst of strong communities. In the days of Sayyid supremacy, too, many estates were divided off and many petty hamlets were settled, which still, although long ago deserted, preserve the names, if not the memory, of their founders. But a time soon came when no small community could live, and the outlying Sayyid settlements returned to the centres from which they had gone forth, and the settlers in the petty hamlets sought what protection the larger villages afforded.

The decay of the Sayyids,

8. For the Sayyids of the Barha were destined to share to the fullest extent in the ruin of the empire, with the prosperity of which they had been so intimately connected; and more especially the Chatraoris, who had last of all served under the empire, suffered terribly, partly because they were more inclined to take a side in the troubles that ensued, and partly because their territory, lying along the Ganges, became on more than one occasion a battle-field.

Pathan fort at Sukartar.

9. In the middle of this tract the Afghan chief Najibuddaulah built his fort at Sukartar to command the ferry of the Ganges, close to the spot where the name of

the village of Firúzpur is said to commemorate a similar occupation in former times. The construction of this fort marks the first loss of territory by the Sayyids, for the three villages Sukartár, Sukartári, and Firúzpur, all commanded by the guns of the fort, were lost to the Sayyids; and far worse than the presence of the Pathán force was the repeated advance of Mahratta armies to attack it. The first investment of Sukartár in 1759 is still remembered, and although the lines of Dátají Sindiah's entrenchments are now hardly to be traced, tradition preserves the memory of the hardships which the Mahratta occupation brought upon the inhabitants. Mornah, the seat of a powerful Sayyid family, and then the chief town of the pargana of Bhúkarheri, never recovered from the ruin which was the result of its fatal proximity to the Pathán fortress, and its consequent convenience as headquarters for the Mahratta army. Thirteen years later, too, Sukartár was again invested, and Mornah was finally reduced after its capture by the Goshains to the condition of a petty village, which it still remains.

- 10. But besides these accidental evils, the rise of the Patháns was fraught with disaster to the Sayyids of the Bárha. The Afghan chief Najíbuddaulah, and still more his son and successor Zábitah Khán, found it advantageous to hold in check the Muhammadan aristocracy of the district with the aid of Hindu chiefs and Hindu communities; and both to the south and north Gójar chiefs began to encroach upon the Sayyid domain, and even the representatives of Ját and Rájpút communities asserted themselves against their former masters; and in the days of Najíbuddaulah's successors the Sayyids more and more decayed. Púr Chapár and a great portion of Bhúkarheri passed into the hands of the Gújar chief of Landhaurah, and from the south the Gújar chief of Baisumha extended his authority until the fiefs of the kinsmen almost met in Bhúkarheri. The town of Bhúkarheri itself seems never to have passed entirely into the possession of the Sayyids, and the Játs of Belrah and surrounding villages threw off the supremacy of the fallen Sayyids and became vassals of the Pathán chief, while to the extreme south-west a Rájpút leader received a cluster of villages in mucarari from Zábitah Khán; and there, too, land was lost to the Sayyids.
- Nor did the final ruin of the Pathans do any good to the Sayyids. few exceptions they had lost all prominence in public affairs, and as far as they were concerned, the chief result of the fall of one enemy was the rise of those who had actively aided in his destruction. A fresh leader had to be recompensed for his service, and the Marhal chief, whose descendants became afterwards Nawabs of Karnál, received in mucarari three parganas, and among them Muzaffarnagar, the headquarters of one branch of the descendants of Khanjahan. In other portions of the tract the ruin and death of Ghulam Qadir, the son of Zabitah Khan and the grandson of Najibuddaulah, seems to have merely substituted new masters for the old. The Gújar chiefs retained their grants, and the Sayyids of Khatauli and Jánsath became the vassals of the European adventurers, who in this tract, on the fall of the Patháns, wielded the power of the Mahrattas. The lesser Sayyids again held from the Gújar and Marhal chiefs their ancestral lands, and after the fall of the Patháns it appears to have been the policy of successive rulers to enlist the assistance of the ancient aristocracy; and although the outskirts of the Sayyid territory were given as rewards to useful auxiliaries, as a rule the old and assured possessions of the Sayyids continued to be held by them, partly on condition of service, and partly for money payments, and the great mucararidars levied tribute from, but did not dispossess, the ancient owners.
- 12. But of all the many years of anarchy the last twenty were probably the worst, and the great famine of the "chalisah" (1783 A.D.) must have fallen with terrible severity upon an ill-watered tract, which had been frequently traversed by armies and had continued for many years in a state of anarchy. From the combined evils many Sayyids escaped by leaving the district for Rohilkhand and Oudh, and it was not until many years later that they or their descendants returned, in many cases so long after the establishment of British rule, that the returning refugees never succeeded in recovering their ancestral lands.

Policy of the Pathi

The rise of the Gu and Marhal chiefs and position towards them the Sayyids.

The close of the per of anarchy.

Incursions of Sikh and

During the last years of the eighteenth and the first few of the nineteenth century, life and property in the Upper Doab were exposed to a new and increasing danger from the inroads of marauders. Zabitah Khan had allied himself with the Sikhs, and from that time Sikh inroads had become the terror of the country side, and the large masonry enclosures which are met with throughout the district were then constructed for the protection of the villagers and their property until the marauding parties should have passed by. And annexation to the British territory at first brought no relief. There were no longer the forces of the Mahratta generals necessary to collect the revenue, and ready to repel the inroads of other oppressors. Under the collector of Morádábád, and latterly under the collector of Meerut, the Upper Doáb was for the first two years of British rule a prey to Sikh and Rohilla marauders, who foreseeing, one might almost imagine, the change that was to come, availed themselves to the utmost of the last opportunity that was to be given them of plundering the Doáb. The collector, unable to realize the revenue from the more turbulent portions of the district without the aid of the troops, had in their absence no force with which to defend his district from Sikh and Rohilla ravages. A body of from 4,000 to 6,000 horsemen, joined at intervals by Rohillas from the east of the Ganges, constituted a force which even the most powerful tributaries were unable to withstand, and the holdings of the great mucararidars shared the fate of the lands held direct from Government. The fortified towns alone resisted the invaders, who on more than one occasion aspired to more profitable marauding than the ruin of petty villages afforded, but they in no way protected the country round.

Ravages of the marau-

14. The collector, Mr. Guthrie, who seems to have lived in a state of chronic strife with all military officers who came near him, and whose individual troubles probably excited but little sympathy among those who alone could relieve him, was every now and then compelled to take shelter "in a little mud ghurry (Fazalgarh), without any other guard than a few najibs," and could do little more than look on at the outrages which occurred. Nor were the marauders satisfied with plunder: they burned the villages, murdered the zemindars, fired and otherwise destroyed the standing crops, and revenged themselves for the successful resistance of the towns upon the surrounding country. Long after the army of Holkar was chased from Shamli by the force under Lord lake the inroads continued, and although in the flying army this district saw the last of its enemies, the Mahrattas, in November, 1804, it was not until after six months more of marching and counter-marching that the detachment under Colonel Burn cleared the district of marauders.

Subsequent period of

15. From that time forth the history of the tract is a peaceful one. The mutiny brought insecurity and disorder, but on this side of the district comparative tranquillity prevailed, especially on the upland. There were few acts of overt rebellion, few confiscations, and but few severe punishments. From the beginning of 1805 to the present time the Sayyids have gone steadily to ruin, but henceforth they had nothing to fear from violence. The new dangers to which they were exposed were more insidious and still more fatal than the old; and when the Sayyids fell victims to their own extravagance and our revenue procedure, to the civil courts and the ever-watchful money-lender, they had almost reason to regret the days when they were vassals of Gújar chiefs or of Mahratta soldiers, and when the lands that were left to them were every now and then being desolated by the march of armies or by Sikh and Rohilla raids.

The effect of restoration of order.

16. In the meantime, however, the pacification of the tract and the early years of order and settled rule brought great relief. Throughout the years of anarchy the inhabitants were collected in large villages and in towns, and although cultivation no doubt went on, it was carried on under great disadvantages by people living at a distance from the greater portion of the land they cultivated, and never certain whether they were likely to reap the harvest for which they had toiled. But now the old sites were gradually re-peopled, and although there are even to the present day fewer hamlets than in many other parts of the country, villages sprang up where they were most required. The Sayyids, too, came back from exile, and although the Gujar

chiefs still retained for some years the greater portion of their mucararis, the proprietary rights of the Sayvids were almost universally acknowledged in the tract in which before the fall of the empire they had completely established themselves. But all over the district the old communities showed signs of strength and cohesion, and even at that time, when there was much less tendency than later to favour proprietary communities, the claims of the cultivating bodies were deemed sufficiently strong to demand serious consideration; but in the vast majority of cases the Sayyids were restored to proprietary rights; and in the exceptional cases the grounds of exception can be clearly traced. The Rájpút mucararidár retained his hold over a few villages in the south-west corner of the tract, the township of Bhúkarheri continued to be held by a powerful Ját brotherhood, and here and there the influence or authority of a Gújar chief or of an officer in the Mahratta service had so obliterated Sayyid rights that they could not be restored. The lands, moreover, commanded by the guns of the fort of Sukartár were held to belong to no one, and constituted most likely the patch of 4,000 or 5,000 bighas of unclaimed waste, the only land of this description which in 1805 the Collector could point out in this neighbourhood.

17. In the greater part of the tract with which this report deals Sayyids were once more proprietors. Rája Rámdiyál of Landhaurah still retained the villages to the north which now constitute the pargana of Púr Chapár, and to the south Rája Nain Singh of Baisúmha was confirmed in his old fief, which comprised in this district most of the villages now included in pargana Bhúmah Sambalherah. While to the north, however, the old arrangement was allowed to stand during the life of the Rája, to the south the Sayyids very soon got back nearly all the villages to which they had any very strong claim, and from the second regular settlement in 1808 the hája's mucarari was restricted to estates to which the Sayyids had probably no very clear right.

The Marhal chief, who at the conquest held the pargana of Muzaffarnagar, among others, in mucarari, received in exchange lands beyond the Jumna, and his descendants, the Karnál family, although now the chief landlords in the tract which is the subject of this report, owe their position partly to Imperial grants, but mainly to purchase from the Sayyids.

- 18. But although the Sayyids were thus restored to proprietary rights in the greater portion of parganas Muzaffarnagur, Bhúkarheri, Khátauli, Jánsath, and Bhúmah Sambalherah, they no longer held by virtue of inheritance, but in very many cases merely retained the lands which they had held either from the Mahratta Government or from Gújar and other chiefs. The mucararis had been granted to individuals, not to communities, and hence began the troubles of the Sayyid casbas which even now furnish so much work to a settlement officer; for as the last mucararidar died so recently as 1845, after Mr. Thornton's settlement, conflicting claims of one or two owners and a large and turbulent body of landless Sayyids have only recently been decided. In fact, until quite recent years, the process of weeding out rightful owners has been going steadily on, and many of the largest Sayyid estates have not been acquired by inheritance or even by purchase, but are examples of the survival of the fittest, or of the least scrupulous, members of large communities. In many cases the ousted owners have been avenged, and the spoiler and the spoiled are alike at the mercy of the money-lender; while in others the old quarrel still goes on, and even the most wellmeaning and considerate landlords have inherited with their property an amount of inveterate hatred which, always unpleasant, is frequently inconvenient, and on some occasions dangerous.
- 19. It is difficult to state with accuracy what rights the old cultivating communities enjoyed under their Sayyid masters, but in old papers, both before and under our rule, the names of the mucaddams or representatives of the village communities were recorded as well as those of the proprietors. The tenants in the villages occupied by

The position of the Say yids at the beginning our rule.

The cultivating committee.

communities of long standing unquestionably sank wells, earthen and masonry, and planted groves up to the date of the High Court's memorable decision.

The village communities in Par Chapar invested with proprietary rights.

- 20. But while in the greater portion of the Ganges and Káli Doáb the village communities received eventually less than they might have fairly claimed, those in Púr Chapár experienced a happier fate. Rája Rámdiyál retained the greater portion of the pargana until his death in 1813, and the villages held in mucarari by his relatives, and revenue-free by his widow, gradually fell in. Most of the villages in this pargana had been acquired by the Sayyids, and to but few could the heirs of the Gújar Rája make any valid claim. And the Sayyids had in most instances been long out of possession, and village communities were at the time in the ascendant; and as against the Sayyids the communities won the day, and Sayyids obtained possession of only one or two estates of poor quality, either uninhabited or occupied by weak communities.
- 21. But far more fortunate were the Banias who had purchased in some cases the rights of Sayyids, or could show deeds of sale executed by the mucaddams. Thus early they had learned to place their reliance on the civil courts, whose procedure seems to have justified Mr. Holt Mackenzie's fear that they had "too little distinguished the different interests which attached to land and its produce." From the civil courts the Banias got all they wanted; in the revenue courts it seems to have been assumed that rights on the part of the communities were incompatible with the Sayyid claims. In one village the Sayyids, whose old fort and masonry houses and well-built tombs evinced the permanent nature of their occupation, were decided to have no rights. In another, where the community was older and stronger, but the rights of the Sayyids had been sold to the Diwán of the late Rája, the Bania was maintained as landlord, and his efforts were equally successful where he had purchased what rights he possessed from the representatives of the village communities.

Mr. Cavendish, who completed the fourth regular settlement (1825-26 to 1829-30) in the northern parganas, appears to have throughout taken the part of the communities, to have held that the representative of a community could alienate his own rights, but not those of the community; but the Mahájans seem to have held their own, and while in some cases, in the search for cultivating landlords, even the Chamars holding land in the midst of a weak Ját community were invested with proprietary rights, and in another Játs who could point to a descent of only two and three generations from the men who had settled round the Sayyid fort were declared proprietors; in others the faintest Sayyid claim became unimpeachable when it passed into the hands of a Bania, and the strongest cultivating right melted away when he resisted it.

Advantages of a biswadári settlement.

The old communities upon whom were conferred proprietary rights have certainly shown themselves right worthy of the consideration with which they were treated; they have held together under no ordinary difficulties, and in a dry unwatered tract have paid to Government assessments which would have been severe But strong communities cannot always even under more favourable circumstances. be improvised; and the new untried communities proved unequal to the responsibilities which were imposed upon them, and have in a great measure given way. It would probably have been more in accordance with justice, and would have secured more general prosperity, if the rights of both parties, the former Sayyid owners and the village communities, had been recognized. The Sayyids would then have become taluquars, while the old village communities would have remained in possession of all that they had previously enjoyed, and the hardship that has been inflicted on those communities which had the misfortune to come in contact with the Diwan of the Gujar Raja would have been avoided. And there can be little question that in the case described by Mr. Cavendish (page 100, Revenue Selections, 1872) what the community really claimed was a biswadari tenure, and what they relinquished was the claim to the taluqdari rights which had been enjoyed by the Sayyids. It was not until many years later that in this part of the country the people, warned by bitter experience, used the word mucaddam as applicable to the representatives of a non-proprietary community alone. Another great advantage of a biswadári settlement in Púr Chapár would have been that the introduction of the system into the district might have led to its extension before it was too late to the old firmly-established communities in the south, over which the rights of the Sayyids were held to have been less decided than in the villages inhabited by more recent and less united settlers. As it happened, only two communities acquired biswadári rights; in one case as a compromise in a suit regarding the purchase by a Ját community of proprietary rights, while in the other it was the gradual result of the contact of an energetic, pushing Ját brotherhood with an involved Sayyid landlord.

- 23. But to return to the period of the final settlement of landed tenures in this portion of the district. To the north, Taga, Gújar, Ját, and Ráipút communities were invested with proprietary rights, while in exceptional cases Sayyids were declared proprietors, and the Mahájan who had purchased in some cases the rights of Sayyids, in others those of representatives of cultivating communities, received in either case the fullest consideration. To the north, as to the south, the Gújar Rájas were allowed to retain only those estates to which no claim of any strength was made.
- 24. In nearly the whole of the central tract, and indeed down to the southern boundary, Sayyids were confirmed in full proprietary rights over the lands which their ancestors had acquired. But in the south-west corner along the West Káli the Rájpúts maintained the position which they had gained in the latter half of the eighteenth century, and to the south-east several Ját communities were declared proprietors in estates which had remained longest with the Gújar Rájas. Throughout the tract were scattered Shekh townships, and in Bhúkarheri three village communities held their own, and amid the general resumption of the Gújar mucararis two minor chiefs retained their estates. One estate, too, had already been sold to the Diwán of the Rája of Landhaurah, and three unclaimed properties were settled with a member of the same family, and in two more estates the hold of the Sayyids was so weak that the Ját kanúngo family of Bhúkarheri acquired in some informal manner the proprietary title.

But with all these exceptions, at the beginning of our rule Sayyids were in possession of 257 out of 361 villages, containing an area of 239,287 acres. After nearly 70 years of British rule, during which there has been almost unbroken peace, during which the agricultural condition of the district has marvellously improved, the area of their property has dwindled to 124,660 acres. And still the ruin of the race continues, extravagance and litigation have in recent times been far more fatal than severity of assessment or extreme punctuality of collection; and while the latter grounds for Sayyid decay cannot be urged with the same force as of old, reckless carelessness in money matters is as much the rule as ever it was, and family dissensions are far more general.

### Fiscal History.

Of the six parganas which compose the Ganges Canal tract in this district, Pur Chapár, Muzaffarnagar, Bhukarheri, Khátauli, Jauli Jánsath, and Bhumah Sambalherah, all but Muzaffarnagar are recognizable in the lists of the time of Akbar. The present pargana Jauli Jánsath, or rather many of the villages composing it, were included in the Jauli pargana, until, in the time of Farukhsír, the influence of the Jánsath Sayyids obtained the formation of a separate pargana of Jánsath. Eventually the two small parganas were united, and since the new tahsíl has been built at Jansath the old name of Jauli Jánsath is falling out of use, and the pargana is frequently, but not invariably, called after what is now unquestionably its chief town. The town of Muzaffarnagar has given its name to the old pargana of Sarwat, since the town was founded by Sayyid Abul Muzaffar, otherwise called Khánjahán, in the

Proprietary classes at the beginning of British

Parganas composing the tract.

reign of Sháhjahán. Of all the parganas Khátauli has changed least, and next to it Bhúkarheri, sometimes called in former times after the Shekh town of Sikri. With Púr Chapár has been incorporated the upland villages of pargana Tughlakpur, afterwards named Núruagar from the summer residence of Núrjahán. Bhúmah, after having been lost in the parganah named from its Gújar capital Baisumha, once more figures in the list of parganas along with Sambalherah.

Changes in pargana boundaries and advisability of assessing in future by tahails.

2. The changes which have taken place in pargana boundaries since the begining of our rule have been incessant, and although these subdivisons are now more compact than formerly, it is I think almost desirable that the tahsil boundaries alone should be entered on the map, and that the parganas which have been so frequently re-arranged that they cannot be called old, should be forgotten in the northern as well as in the eastern districts of the North-Western Provinces. As they at present stand they in no way facilitate revenue work, and such haphazard subdivisions have been a hindrance rather than help to the proper arrangement of circles for police purposes.

During the course of settlement operations I have, under the peculiar circumstances of this revision, followed the example of my predecessors, but experience has led me to the conclusion that, in future, pargana limits should be entirely disregarded. But as regards the fiscal history of the tract, the division into parganas is not without some interest and importance, for not only is the bulk of the information which has been obtained regarding former settlements recorded by parganas, but the treatment of the various parganas has, owing to accident or design, varied greatly.

Defective character of materials for fiscal history.

3. Unfortunately the information which has been obtained is somewhat limited in extent, and gathered as it has been from old copies of vernacular proceedings and from kanungos' records, more than from reports submitted to Government, it shows facts rather than accounts for results; and the interpretation which is given of these facts is probably rather than certainly correct.

Revenue arrangements during two first years of British rule. 4. During the first two years of our rule, 1803-04 and 1804-05, the British Government was naturally compelled to follow in the footsteps of its predecessors, and the extent of land held by the great mucararidars rendered this course comparatively easy as well as inevitable. Rája Rámdiyál of Landhaurah held the greater portion of the present pargana of Púr Chapár and some estates beyond its limits. Rája Nain Singh, the Gújar chief of Baisumha, remained master of Bhúmah, and the Marhal family, which later received Karnál in exchange for its jaedád in this district, retained possessasion of the greater part of Muzaffarnagar, as also of Shoron and Chartháwal to the west of the Káli river. The descendants of Khánjahan, the minister of Sháhjahán, held in detached but not very numerous talukas nearly the whole of Khátauli, and a Rájpūt mucararidar held the greater part of the remainder. The Sayyid families of Jánsath, Jauli, and Chitaura dominated in Jauli Jánsath; and in Bhúkarheri and Sambalherah lesser mucararidars and a few communities seem to have shared the land with the Gújar chiefs and their retainers. In this part of the district, therefore, our Government had to deal with but few individuals.

The first regular settlement, 1805-06 to 1807-08. 5. The first triennial settlement from 1213 fasli to 1215 fasli (1805-06 to 1807-08) was made by Mr. Guthrie, who seems to have been a man of great assiduity, but of narrow views, who came into his new district with a number of preconceived opinions, to which he held with unwavering, if somewhat obstinate, perseverance. A man on the worst terms with his own countrymen was naturally forced to lean on the great tributaries for that support which the military commanders afforded only when they were absolutely forced to do so, and it is not matter for surprise that Mr. Guthrie should have held with more than ordinary enthusiasm the view not unusual at the time, that the one thing wanted for the happiness of the country was a landed aristocracy, even if composed of savage freebooters or of rude mercenaries. But here at least such views did little harm: the confirmation for life of the great mucarari of

Rája Rámdiyál was a measure of admininistrative expediency, if not of necessity, and it postponed the discussion of rights to the land until a time when cultivating brother-hoods and small proprietors had a better chance of a favourable hearing.

- 6. Imperial considerations again urged the transfer of the Marhal family, which held Muzaffarnagar, Shoron, and Charthawal, to the newly-acquired lands beyond the Jumna; and when the Marhals left the tract, there could be no doubt as to the persons who were to be regarded as proprietors. For throughout the greater portion of this tract the claims of the Sayyids were universally recognized, and in them this part of the district had a landed aristocracy whose position the most ardent upholders of village communities could hardly have overlooked. Settled in the district for some four hundred years, the Sayyids of the Barha had from a small beginning attained to great power and influence. They were no mere upstarts of yesterday who happened by a lucky chance to have held at the conquest positions of importance, which likely to have been lost in another decade of anarchy, were rendered permanent by They formed not only an acknowledged but the advent of a settled government. honoured aristocracy, and Hindu and Muhammadan concurred in their respect for a clan which, proud of its origin, had won for itself special claim to esteem by the long list of shrewd statesmen and gallant soldiers which it had produced. And even in the recent half century of disaster the Sayyids of the Barha had maintained their ancient reputation for military efficiency; they no longer furnished great leaders, but they were well known as brave and hardy horsemen, and with all their faults they constituted a proprietary body of more than average merit. They were entirely free from religious bigotry, and even in their religious ceremonies they maintained friendly relations with their Hindu neighbours. They lived on and managed their properties, and although at times arrogant and harsh, they are still better landlords than most others, and having stood for some years in the place of more than one Sayyid proprietor, I can testify to the influence over the people which a Sayyid landlord can exert, and to the kindly feeling which still exists towards the old houses. capitalist speaks with reverence of the old families which he has supplanted, and it says a great deal for the goodness of one side of the native character that the poorest Sayvid cultivator is still spoken of as a Sayyid sahib, and is treated with a degree of respect which is often denied to the richest of his neighbours.
- 7. Such were the people with whom the earlier settlements were made. The most influential among them, the representatives of great statesmen and successful generals, held large taluques, but there were many villages in the possession of small proprietors or of brotherhoods, the members of which were glad to eke out an insufficient income by military service. For one reason or other they do not seem to have taken kindly to the military service of the British Government, and this source of income began to fail the clan, when the regularity of our revenue system made such help more necessary than ever to the proprietary brotherhoods.
- 8. It is difficult now-a-days after seventy years of settled government and almost unbroken security to judge of assessments imposed at the beginning of our rule; but the first settlement does not, either owing to its moderation, to fairly high prices, or to good seasons, seem to have pressed heavily. The basis of assessment was the estimate of officials, checked by reference to former accounts, occasional inspection by the collector, and in case of objection the measurement of the crops.
- 9. The second settlement, that of Mr. H. Dumbleton, was concluded for another term of three years from 1216 fashi to 1218 fashi (1808-09 to 1810-11), and owing either to its inherent defects, or to accidents of season, or to the rigidity of our revenue system, or to all these causes combined, it led to many transfers and much distress.
- 10. It would appear from the fiscal history of a quite sufficient number of estates that a populous well-to do village could, seventy years ago, pay into the treasury a revenue as high as should be demanded from it on the half-asset principle now,

Recognition of propri tary rights of Sayy families.

Moderation of first 1 gular settlement.

The second regul settlement, (1808-09 1810-11) extended 1811-to 1814-15.

Severity of the seco settlement and its conquences. however great the changes which have taken place since the beginning of our rule. And these estates, which at the early settlements were treated with the greatest severity, have fairly held their own, when inhabited by strong brotherhoods which were it is absolutely certain sufficiently numerous even seventy years ago for the effective cultivation of their lands. But wherever the brotherhood was disunited, or the population insufficient, assessments which, judged by the present standard, at first sight appear to have been moderate, quickly led to transfers.

- 11. It seems certain too, that although the great mucararidars could not shield their villages from the most terrible incursions of marauders, they prevented or moderated the effects of lesser raids, and the position of the more northerly parganas of the tract may have helped to lessen their insecurity. The raids seem to have had a general tendency towards the Meerut border, and Sikhs and Rohillas would appear to have been much oftener round Khatauli and Miranpur than to the north of Muzaffarnagar; and there can be little doubt that Khatauli, under its broken Sayyid landlords, was harried and desolated to an extent unknown in the northern parganas, and that comparatively few of the villages now existing survived the years of anarchy which preceded the conquest.
- 12. And the second triennial settlement was one of steadily advancing demand, and it had the misfortune to be preceded by "the calamitous season of 1215 fashi" (1807-08). A bad harvest, increasing demands, and the rigidity of our revenue system soon made themselves felt, and in most parganas transfers began with the new settlement and continued to its close; and, although to a less extent than in many other districts, "the scourge of public sales broke in upon the proprietors," and "the ruinous system of farming the revenue of extensive tracts to speculators and strangers" was tried with the usual unhappy results.

Ratension of period of settlement.

13. This second triennial settlement was intended to have been a permanent one, but, fortunately both for the exchequer and the country, the authorities at home refused to sanction the arrangement. No steps had been taken towards a revision of the settlement, and the Board of Commissioners, availing themselves of the silence of Regulation X. of 1812 in regard to it, left the settlement undisturbed, and the duty of the collector, Mr. Oldham, was confined to the settlement of lapsed farms and of those few estates the proprietors of which declined to abide by the existing arrangements. With these exceptions the second settlement was allowed to remain in force for a further period of four years from 1219 to 1222 fasli (1811-12 to 1814-15). And the assessments of Mr. Dumbleton were destined to be tried at the close as at the beginning of the period for which they were in force by bad seasons. The spring crops in 1815 were very seriously injured, and in some cases destroyed by the early rain before they were stacked, and this calamity was followed by a drought.

The third regular settlement (1815-16 to 1819-20) continued to 1824-25. 14. Mr. Colin Shakspear, to whom fell the task of revising the assessment and of fixing the demand for the quinquennial period from 1223 to 1227 fasli, was so impressed by the distress which prevailed that he granted reductions in all the southern parganas, Khátauli, Jauli, Bhúmah, and Sambalherah, as well as in most of the adjoining parganas of Meerut, which afterwards contributed villages to the district of Muzaffarnagar. Khátauli especially he held to be so much overassessed, that he reduced the demand for 78 estates from Rs. 52,289 to Rs. 45,708 in the first, and Rs. 47,669 in the last year of settlement.

The condemnation of Mr. Shakspear's work in the southern parganas.

15. Then, as now, the success of a settlement was judged of by the balances, and although the settlement of Mr. Dumbleton had led to continued transfers, and although 21 villages in Khátauli had been put up to sale, and 13 were sold for arrears in the year 1222 fasli alone, and although even before that year village after village had broken down, Mr. Shakspear's proceedings were sternly disapproved of, a revision was ordered, and was only prevented by the death of the revising officer,

Mr. Calvert. Punctuality of collection was looked upon as a certain proof that the old demand was a moderate one, and Government orders and Mr. Holt Mackenzie's memorandum, written two years later, concur in depreciating Mr. Shakspear's work. As far as it is possible now to judge, Mr. Shakspear's reductions were absolutely required, and they were granted most liberally in the estates, which at that time were Unfortunately Mr. Shakspear did not enter into almost or wholly uninhabited. much detail in furnishing reasons for his reductions, and his report was accompanied by estimates of assets which in no way guided his assessments, and which were in many cases either wholly untrustworthy or showed the assessments to be wrong. In one respect Mr. Shakspear was very far ahead of his own generation. He not only expressed, but acted upon the belief that it was undesirable to oust the old proprietors solely because they could not pay assessments of intolerable severity, and was in this respect in advance of many of his successors, and even of Mr. Edward Thornton, who followed Mr. Shakspear twenty years later, and who, notwithstanding the moderation of his assessments, wrote of general and compulsory transfers of proprietary right by means of the fixation of a high revenue demand as a mere question of expediency, irrespective of any sentiment of justice.

16. In the northern parganas Mr. Dumbleton's settlement appears to have pressed less heavily, and in Muzaffarnagar reductions were not apparently required, and were certainly not given. But in Bhúkarheri the second settlement was unquestionably severe, and modifications were made at the close of the triennial period, and still further reductions were granted at the third regular settlement. Indeed, it was not until Mr. Thornton's settlement in 1840-41 that the demand of the second settlement was exceeded. More than three-fifths of the present pargana of Pur Chapar was included in the mucarari of Rája Rámdiyál of Landhaurah, and came under settlement for the first time in 1221 fasli (1813-14). The Shekh township of Púr and the outlying villages belonging to it, as well as other estates in which Sayyids had formerly more distinct rights, were here, as in Bhúmah, after the first settlement, withdrawn from the mucarari, and were assessed in the second regular settlement at a sum which was never exceeded until the present revision, and then only by 20 per cent. These villages indeed shared the fortunes of the precisely similar estates in Bhúkarheri. Their assessments were reduced and equalized at the third settlement, and there was no general or serious enhancement until the present revision more than sixty years later, when the canal had changed the circumstances of what had been a wholly unirrigated tract.

17. Throughout the tract, then, with which this report deals, the third regular settlement brought reduction or equalization except to the bulk of Pur Chapar, which came under different arrangements. Out of 54 villages now composing the upland pargana 31 were held in simple mucarari by Rája Rámdial, and were settled with the proprietors on his death in 1813. Three were held revenue-free, and did not lapse to Government until seventeen years later, on the death of Ráni Ládkanwar, the daughterin-law of the Rája. The settlement of the lapsed villages was entrusted to Mr. Chamberlain, whose name has since been held to be synonymous with overassessment. But as far as this pargana is concerned, it is to be observed that the assessments remained pratically unchanged throughout subsequent revisions, and that even a specially painstaking officer like Mr. Cavendish, who followed after an interval of ten years, satisfied himself after a very minute investigation with comparatively trifling modifications tending towards the equilization, not the reduction as far as the pargana as a whole is concerned, of the Government demand. And however severe Mr. Chamberlain's assessment may have been, his settlement had this great merit, that he admitted the village communities to engagements, and heavily as the burden may have pressed upon many communities they were probably as well off as they were when under their Gujar master, and far better off than when during the next settlement they were handed over to the oppressive exactions of a ruthless farmer. And the great defect of all the early assessments was one of principle; not only was the margin of

The northern parganas

Pargana Púr Chapár.

profit left to the zemindar so small that a slight error in the estimate of assets left him with an overourdened property, but even if the estimate was a perfectly accurate one, the share taken by the State was so large and the system under which it was collected was so rigid and inelastic, that no proprietor of moderate means could in a dry ill-watered tract pay, without embarrassing himself, through a series of years the unvarying demand of Government. Far more in all probability than the weight of our earlier assessments is the excessive want of elasticity in our revenue system responsible for the ruin of so many villages. Every season of drought brought difficulties and transfers in its train, and needy and extravagant proprietors and weak communities rapidly lost their land.

British and Native systems of revenue management contrasted.

18. A statement of collections in a considerable portion of the Bhúkarheri upland for the five years immediately preceding our occupation has been preserved, and helps to show the difference between the system to which the people had been accustomed and that under which they were destined so seriously to suffer.

1206 F.	1207 F.	1208 F.	1209 F.	1210 F.	1211 F.	1212 F.	1213-15 F.	1216-18-22 F.	1223-27-32 F.	1233-37 F.
1798-99 A.D.	1799-1300	1800-01	1801-02	1802-03	1803-04	1804-05		1808-09 to 1810-11 continued to 1814-15.		1825-26 to 1829- 30
					First summary settle- ment.	Second summary settle- ment.	First regular settlement.	Second regular settlement.	Third regular settlement.	Fourth regular settlement
Rs. 16,504	Ra. 18,657	Rs. 14,267	Rs. 20,336	Rs. 22,173	••			Rs. 31,106		Ra. 29,305

It may be that the resumption of revenue-free and service lands warranted the enhancement in the first settlement of which records have survived, although the fact that for twenty years no further increase was possible is against this supposition. But even if the assessment did not exceed the-elevenths of the average assets, it must have been a hard trial for people impoverished by war and repeated droughts, and accustomed to the elastic system of our predecessors, to bear up against the inflexible regularity of our revenue administration. And this the Sayyids, who owned by far the greater portion of the tract now watered by the Ganges canal, failed to do; and their own reckless extravagance combined with our system, even more than with the weight of our assessments, to ruin the people whose proprietary rights were maintained or restored at the beginning of our rule

General result of the bird regular settlement.

19. The third regular settlement then brought to the southern parganas distinct relief to the central tract relief and equalization. When it was concluded Púr Chapár was endeavouring to pay into the treasury assessments which in many estates are not exceeded even now, when, instead of being wholly dry, the pargana is fully irrigated. Although Mr. Shakspear's arrangements were generally condemned as unsatisfactory because they did not result in an enhancement of the land revenue, and although the southern portion of Saháranpur district was specially excluded from the "general benefit of an extended lease," and although in the southern parganas, at all events, Mr. James Fraser went over the assessments, the changes made do not appear to have been as a rule very important even in the southern parganas, and in Muzaffarnagar, Bhúkarheri, and the more early assessed portion of Púr Chapár the settlement was, it is believed, maintained.

Settlement of the lapsed mucarari in Pur Chapar.

20. In the last-named pargana, however, the villages of the lapsed mucarari were not so fortunate, and Mr. Moore, upon whom devolved the duty of making the second regular settlement of these villages for the period from 1227 fasli to 1232 fasli (1819-20 to 1824-25), is still remembered as one of the worst enemies with whom the Taga and Gujar brotherhoods had to deal. He did not raise the assessments of his predecessors, and in some cases he reduced them; but the rights of the communities were treated either with disfavour or neglect, and "the ruinous system of farms" was

generally introduced. Fortunately, however, it was one man, and not a tribe of influential persons, who profited by the new policy, and Shekh Kalan of the Shekh casba of Réjúpur, formerly in the Mahratta service and latterly holding the rank of captain under the British Government, had too little of the suaviter in mode to be permanently successful. At first, however, he obtained everything he wished: village after village fell into his hands; in some cases he is said to have farmed with the consent of the proprietors; in other villages the zemindars refused, or were said to have refused, to engage; the owners of others did not attend, or were at least recorded to have stayed away, for in such cases there is no difficulty in inventing reasons and in substantiating them by documents: and Shekh Kalan seems to have had a good deal of his own way in the revenue as well as in the civil courts of the day. Had he been left undisturbed he would no doubt in time have become permanent owner of the splendid property which he had succeeded in getting into his hands, but his exactions became so notorious, and the resistance of the people so determined, that an investigation into the circumstances was made in 1822, the farms which had never been confirmed were cancelled, and the communities were admitted to engagements.

Members of the family of Shekh Kalan still own three estates in the district and a portion of a fourth, but they have steadily lost ground, and while still evincing the bad qualities as landlords for which their ancestor was distinguished, they show little of his capacity. Serious as were the evils resulting from Shekh Kalan's three years of power, the communities survived that as well as many other disasters, and the lands which the Shekh had managed permanently to acquire were gradually bought back. Now-a-days, indeed, the communities are pushing their way into the Shekh villages, and are acquiring bit by bit the land of their ancient enemy.

21. The fourth regular settlement was concluded by Mr. Cavendish in the northern parganas, and by Messrs. Dundas and Boulderson in those of the south. In the year 1823, shortly before the term of this settlement began, Muzaffarnagar had been formed into a sub-collectorship under Mr. Dundas, and all the parganas with which this report is concerned, with the exception of Bhúmah Sambalherah, had henceforth Muzaffarnagar for their district headquarters. This settlement, like its predecessor, brought no considerable enhancement. In Muzaffarnagar and Púr Chapár there was a slight rise, mainly attributable, it is believed, to the falling in of revenue-free holdings; in Bhúkarheri the assessment still remained below that of the second settlement; in Bhúmah Sambalherah a reduction was granted by Mr. Tulloh, who settled this pargana for the period from 1231 to 1242 fasli (1823-24 to 1834-35); in Khátauli and Jánsath the records are too incomplete to warrant an assertion, but it may be assumed with safety that no general enhancement was made upon the old demand.

Owing to the preservation of some of Mr. Cavendish's notes, extracted in Mr. Holt Makenzie's second memorandum, a better idea can be obtained regarding the state of Púr Chapár at this time than is obtainable regarding any other portion of the district at a time anterior to Mr. Thornton's settlement; and, as a comparison of the present state of these villages with their condition forty years ago may be held to have some interest, the statistics for several villages at the fourth settlement have been placed side by side with those of the eighth just completed, in appendix III.

22. During the currency of the fourth settlement Muzaffarnagar was converted into a regular district, and Mr. Franco, who had received charge of the sub-collectorship in 1826, was the first collector. To this officer was entrusted the duty of making the fifth regular settlement, which, intended to last for five years only, was confirmed for a second quinquennial period and remained in force until 1840-41. This settlement again aimed at equalization rather than enhancement, except in one pargana, Púr Chapár, and here the enhancement taken at this settlement was again remitted by Mr. Thornton.

The fourth regular set tlement, 1233-37 fast (1825-26 to 1829-30)

Mr. Cavendish's notes regarding villages in Púi Chapár.

The fifth regular settlement, 1236-47 fasli (1830-3) to 1889-40).

Pargana Bhúmah Sambalherah, which was still retained in the Meerut district, was settled by Mr. Glyn in 1830-31=1238 fasli at a slight increase on the old assessment, but his settlement was three years later revised by Mr. (afterwards Sir Henry) Elliot, and the assessment was again raised, and the demand eventually fixed was more than 15 per cent. in excess of that assessed by Mr. Tulloh eleven years before. This enhancement, giving assessments which even nearly forty years later, when canal irrigation had worked a considerable change in the circumstances of the pargana, could not in several estates be maintained, completed the ruin of several Sayyid families.

The sixth regular settlement by Mr. Thornton, 1841-42 to 1861-62.

23. The fiscal history of the tract has now been brought down to the period of Mr. Thornton's settlement, regarding which there is much though still insufficient information, for the loss of all detailed records has owing to the mutiny been very complete. At this settlement, completed, as far as the tract under report is concerned, in 1840-41, the district reaped to the full the benefit of having been cut off finally from the richer parganas to the south. For it is an unquestionable advantage for a district during the progress of settlement to consist of a fairly homogeneous tract, and it is not unlikely that the early troubles of Khátauli may have been in some measure due to its vicinity to a parganah like Meerut, and still more to Sirdhanah, distinctly superior in natural fertility, and less exposed to the ravages which devasted the northern parganas. But not only was there now no very greatly superior tract left on this side of the district, but Mr. Thornton entering it from the north, and having previously settled Saháranpur, was tempted to bring into this district rates which he had found suitable for the poorer parganas to the north.

Mr. Thornton's soil classification.

24. The system adopted by Mr. Thornton differed in several important points from that which seems to have been followed by his predecessors and by Mr. Thornton himself in the Saháranpur district. In Muzaffarnagar Mr. Thornton had full control of settlement operations from the beginning, and he had acquired much local as well as general settlement experience in his settlement of the Saháranpur district. Whatever difference of opinion there may, therefore, be as to the wisdom of following Mr. Thornton's system after twenty years of unexampled improvement, there can be none as to the ability and care with which it was worked by Mr. Thornton, and the assessments fixed on its basis had the great merit of being in nearly every case moderate. Mr. Thornton had found in Saháranpur that three natural soils—rausli or loam, dakar or clay, and bhur or sand—were generally known to the people, although, owing to rents being paid "in kind, little attention was paid to them." "Dákar" (Mr. Thornton continues) "is a stiff soil, but rausli and bhúr are light; and though at the two extremes these are the best and worst, yet in very many cases it is impossible to decide under which of these two denominations a particular field should most correctly be classed. In the measurement now going on in the Muzaffarnagar district all such doubtful cases are classed under the inferior denominations, but I found that while one amin uniformly pursued this system in Saháranpur, another thought it proper to put down all such land as rausli. The denominations have reference merely to natural qualities, but there ought to have been a further distinction of that soil which from continued high culture has attained peculiar excellence."

The entry of misan or manured land.

25. In Muzaffarnagar accordingly all land ordinarily manured was recorded as misan, and Mr. Thornton held that the proportion of misan throughout the district must be about 16½ per cent. to keep up cane and cotton crops covering four and three per cent. respectively of the cultivated area. Generally Mr. Thornton seems to have assumed a minimum of 20 per cent. and a maximum of 50 per cent. The limitation of the misan area that was to be charged misan rates afforded, where the rates were followed, very distinct relief to many of the fine villages held by cultivating brotherhoods, which had always borne the burden of heavy assessment; but the fact that such a limitation was necessary, and the instances given by Mr. Thornton,

showed that the difficulty of securing even tolerably accurate entries of this soil were felt then as well as later; and it is clear that the subordinate settlement officials, holding to ancient traditions, did their best to ensure the continuance of the old severity to the villages held by industrious communities. And no system which was satisfied with a percentage of 16½ or even 20 per cent. of misan in a district with 5 per cent. of the cultivated area under cane and three per cent. under cotton could obtain such results as 75 and 82 per cent. in the villages named by Mr. Thornton.

26. In recording irrigation, Mr. Thornton looked to land ordinarily irrigable, not merely to the irrigation of one year. "It is not that land alone which is actually irrgated in the year of measurement which ought to be put down as such. The rabi crop of the past year is succeeded by kharif in the present, and it is not customary to water the kharif: so of that land round a well which is all of it watered in the course of two years, only half is irrigated in either one year. Both have been treated by me as irrigated land, though in the khasra and early papers a distinction is preserved by using the name of "cháhi" for the one and "muhitah cháh" for the other. It will be more fully shown further on that in estimating the average rent-rate the produce of the latter is calculated as if the land were unirrigated, and is then added to the produce of the former, after which the average of the two is taken as the uniform rate of the whole, and in subsequent papers the distinction is dropped. Also the actual amount of land irrigated by a kucha well is not exclusively considered, but the object proposed is to ascertain the extent of land which possesses this valuable peculiarity of a substratum which admits of such wells being readily and cheaply made."

27. Mr. Thornton's exposition of his system is clear and simple, but it has not been always clearly understood by his successors; and as the accuracy of my remarks upon this subject with reference to the western parganas of the district has been called in question by an authoritative critic, I may be allowed to devote a few lines to the subject.

Mr. Thornton had two courses open to him: he might have calculated the produce of the irrigated area of one year and treated the irrigable but not irrigated land as dry; or he might, as he eventually did, take the average produce of the irrigated and irrigable, but not irrigated land, and apply the rate thus obtained to the whole irrigable area. But when Mr. Thornton's successors adopted, even with slight modification, his assumed rates, they had no such option: they were bound to apply the rate fixed for irrigable land to the whole irrigable area, and not to the lesser area watered in the year of measurement.

28. But there was nothing, it is presumed, that was new in Mr. Thornton's treatment of the irrigated area, and the points in which his system differed from his own in Saharanpur and from that of Sir Henry Elliot and Mr. Plowden in Meerut was in the addition of misan, in the greater detail of and attention to various soils, and in his minute and laborious classification of villages. "The basis of this system lies in bringing together mauzas whose soil is similar in quality." Relying on his misan entries to correct any errors due to difference in the standard of cultivation, Mr. Thornton was mainly guided by situation. But in the arrangement of his circles he followed a practice which must seem to most settlement officers of the present day an erroneous one, that (namely) of determining the limits of the various circles during instead of after measurement. "It does not appear" (Mr. Thornton writes) "that the same accuracy could be obtained if the circles were not defined till after the season's work of measurement has been completed, because those local peculiarities will not be afterwards recollected, and they are much more likely to be noticed if inquired for at the only time when the person called on can obtain the information most easily.

"Also each set of mauzas does not consist of one uniform quality of soil throughout, but has in it several varieties, of which the ordinary denominations are misan, rausli, dákar, bhúr. If one set has just been closed, and the first mausa which is

Irrigation entries.

Mistakes made regarding Mr. Thornton's system by his successors.

Peculiar features of Mr. Thornton's system of classification of villages.

to come in the new set is under measurement, an amin may observe that the soil of any one of these denominations is better or less good than that of the same name which he has lately been measuring in the previously completed set; but he still has no hesitation in writing the field down as rausli, or whatever the proper name may happen to be, because he knows that this rausli is not to be classed with that of the other set, but will have its own rate of assessment suited to its own quality. But if he has no certain knowledge that the mauza is not to be classed with those just before measured, he is inclined to enter this rausli field as bhur or misan as the case may be, because he thinks it more equal in quality to the one or the other that he has lately been conversant with than to the rausli; supposing the mauza to be classed properly in the subsequent arrangement of circles, its land of one sort will thus inadvertently be assessed at the rate of that of some other denomination."

Objection to Mr. Thornton's system.

29. To these views it may be objected that some exact knowledge of a tract is required before estates can be properly classified, and that Mr. Thornton's system left far too much to the amin—indeed allowed him a degree of discretion which is now rightly reserved to the assessing officer. But such considerations, although decisive enough against Mr. Thornton's system now, would have little weight at a time when the detailed inspection of villages was practically unknown, and when settlement officers boasted that in ten days they could acquire an accurate knowledge of a large tahsil. Mr. Thornton appears to have supervised measurement operations with great care, and, under the circumstances, it is natural enough that the division into circles should have taken place while these measurements were going on, for they were not to be followed by the minute and laborious inspection of estates, which is the invariable prelude to assessment now-a-days.

Divisions into circles.

30. Mr. Thornton divided the Ganges canal tract into fifteen circles, and as Bhumah and Sambalherah each constituted a separate circle, the total number of circles under the old settlement amounted to seventeen. Mr. Thornton held that "it was better to make two than one circle of mauzas if there was a doubt of there being a distinguishing peculiarity," and he carried this principle somewhat to excess.

Fixation of rates.

31. In the fixation "of fair average rent-rates for each of the several denominations of soil in each of the circles into which the district has been classified" Mr. Thornton was met by the difficulty that even in those estates in which there were numerous non-proprietary cultivators rents were paid in kind, or in the case of a few crops by fixed money rates for each crop, irrespective of the soil in which they might be sown. These zabti or crop rates for the villages in each circle were easily ascertained, but the investigation regarding the value of the rental paid in grain was tedious and labourious.

Not only were estimates made of the produce in three or four villages of each circle at the spring harvest of 1840, but the kankút or crop estimate papers of fourteen years preceding 1841, referring to 413,650 acres, were obtained, and averages were taken for each circle. Mr. Thornton assumed, and with sufficient justice, "that only wheat, gram, and barley are grown to any considerable extent in every soil, whatever be the denomination." With reference to these three crops covering 401 per cent. of the cultivated area, he had the detailed estimates for each kind of soil formed in the spring of 1840. For cane, cotton, chari, and maize, covering 171 per cent. of the cultivated area, he had the known crop rates. For the remaining 42 per cent of the crop area he had to follow the distribution of 1840. "All other articles besides wheat, barley, and gram, are almost exclusively confined to some one denomination of soil, and in the process the relative amount of the several rates for the crop grown in one or other soil was determined according to the proportions ascertained by the investigations of 1840." Now, although Mr. Thornton's statement was generally accurate, that, except the three principal cold-weather crops, particular crops were usually grown in particular soils, there were quite enough exceptions to exert a considerable influence upon the calculations. Thus, excluding crops for which crop rates are ordinarily charged, 15 per cent. of the bhur or sand area was covered with crops grown more or less generally in good land, while of the crops more distinctive of poor land, an appreciable proportion was grown in the better soils. There was in this way a decided tendency to raise the rates for the worst soil and to depress those calculated for the better soils. And as the division of the district into circles was not altogether so accurate as might have been the case had a detailed inspection followed measurement, and as in the very best circles second and even third class estates were included, the tendency of this method of fixing rates to raise the rates for the worst land and to lower those for the best land was increased.

32. But rent-rates ascertained in the manner described were not necessarily followed. "It will be observed, for instance" (Mr. Thornton writes), "that the revenue-rates on unirrigated ransli in Chapár, Púr, Tissa, and Nirgájní—among which the three last circles, speaking of their whole area generally, are certainly of inferior quality—vary from Re. 1-12-0 to Re. 2-1-0 per cultivated acre, while in the better parts of the district the rate in this soil seldom reaches Re. 1-7-0. Upon commencing the assessment of Chapár, after having gone nearly through the assessment of the whole district, I ventured on the experience I had obtained to lower arbitrarily; but the result was that the jama obtained by use of this modification was so much lower than from the other information collected appeared proper, that further investigation of the rausli land was necessary, and it fully bore out the fact that a high rate was applicable." Experience has shown that these rates were justified, but the same experience and the records of Mr. Thornton's settlement themselves show that the rates for other circles were extremely low.

It has been already noticed that there is in this district a distinct improvement in soil towards the south, especially along the western boundary of this tract; and although extreme prevalence of sand may lower rates in certain portions of some of the southern parganas, it is none the less unquestionable that even sand, when found in moderate quantities, bears higher rates than to the north. And there are sufficient data to show that this was the case thirty years ago as well as now, whereas the subjoined statement, in which the circles are arranged as they stand on the map. shows that Mr. Thornton's rates do not practically admit this unquestionable fact, and that in consequence those assumed for the southern parganas differ most widely from those of the adjoining parganas of Meerut. Indeed, the absolute neglect to institute any comparison between the rates of adjoining parganas in different districts has been productive of much inequality in assessments and of loss to Government. There is of course no more reason why adjoining parganas any more than adjoining circles should pay the same rates, but it is clear that the rates for similar soils in estates of similar quality should not vary excessively merely on account of a district boundary, which, moreover, in this case has followed no natural line, but has out through strips of homogeneous upland and has divided the holdings of clans and the estates of proprietors.

Deviations from calculations by rent-rates.

Lowness of the rates assumed especially in southern parganas.

		Pár.				Bara	mpur.	
	Misan.	Rausli.	Dákar.	Bhúr.	Misan.	Rausli.	Dákar.	Bhúr.
	Rs. s. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	- 1	Re. a. p.
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	Misan.	Rausli.	Dákar.	Bhúr.	Misan.	Rausli.	Dákar, Bhố	r. Mísan.	Rausli, Dák	ar. Bhúr,
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Wet Dry	4 6 9	No wet 2 6 6	2 11 10	1 8 7	4 5 11	2 11 10	1 18 4 1 11	4 3 2	1 2 3 10 2 2	6 1 3 1

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Result of comparison of the rates of different circles.

A careful comparison of the rates of the various circles brings to light several peculiarities, for some of which it is difficult satisfactorily to account. The expense of irrigation might plausibly account for the small difference in the assumed rent-rates of wet and dry land in the northern parganas, if the smallness of that difference were uniform. But when we find that irrigation adds little or nothing to the value of misan, but enormously to the value of unmanured land, and more especially of bhur; when we find the rates for dry land in the north higher than those for irrigated land in such a fertile easily irrigable circle as that of Jánsath, and when we look at the rates of the parganas immediately to the south of Jánsath and Khátauli, it is difficult to avoid the conclusion that in the southern parganas the rates assumed were low. For it is absolutely impossible that the land of Khátauli and Jánsath, so much more advanced even thirty years ago than the parganas to the north, should have been worth less, and it is incredible that the advantage of easy irrigation should not have made the irrigated land of Khatauli worth more instead of less than the unirrigated land of Chapar. Either the one set of rates must have been too high or the other greatly too low; that the latter was the case is indicated not only by the rates of adjoining parganas settled by other officers, but by the rates recorded in the papers of Mr. Thornton's settlement. As has been stated in the rent-rate report for Khátauli, these rates are far in excess of those assumed, and sufficiently bear out those fixed by Sir Henry Elliot for the adjoining pargana of Meerut. A final and convincing proof of the inadequacy of the rates assumed for the circles to the south is given by their application to the soil areas of the better villages, as recorded in the papers of the old settlement. The result shows that the better villages were assessed without any reference to these rates, which in some cases give little more than half of the rental that was assumed.

Rates unequal as well as low.

35. And in addition to being extremely low in the southern parganas, Mr. Thornton's rates had the defect of being necessarily inexact. Appendix I. to the printed report and Mr. Thornton's remarks combine to show that many crops which

are never grown without manure were cultivated in fair proportions in land entered unmanured; and inaccuracies of this kind, the necessity of using an average kharif produce for every kind of soil, and the inclusion in most circles of very inferior as well as distinctly good villages, tended to equalize rates and to make those for the best lands too low and for the worst soils too high, to make the circle rates high for the poorer villages, and so needlessly low in the southern parganas, at all events for the best estates, that the assumed rates were not allowed to guide the assessments.

36. I have been obliged to undertake the ungracious task of stating prominently what I consider to be the defects of Mr. Thornton's system, because that officer was led to claim for his rates an absolute infallibility which was admitted by his immediate successors. In paragraph 29 of the printed report Mr. Thornton writes: "I consider that with perfect safety and propriety it might be declared that the rates for each circle as now given in No. 5 of the appendix to this report, with the exception of those for the five circles in the khádir of the Ganges, need never be exceeded; and that the only two matters subject to subsequent examination should be the amount of misan and of irrigation." This conviction of the attainment of final and absolutely accurate results would have done no harm and need not have been seriously dealt with had Mr. Thornton's opinion on the subject not been adopted by his successors.

The sixth regular settlement then gave to the district moderate or low assessments for a term of twenty years. In Púr Chapár Mr. Thornton granted a reduction on the old assessment of the pargana, and in many of the most overburdened estates he gave distinct relief. In Bhúkarheri an enhancement of 20 per cent. was taken chiefly from the once backward estates which had improved and from the smaller mucararis which had come under re-assessment. In not a few of the most heavily assessed estates reductions were granted. In Muzaffarnagar an enhancement of 10 per cent., exclusive of gain from lapsed musifis, was combined with an equalization of the demand and relief to the most heavily assessed eatates. Regarding Khátauli and Jánsath information is extremely scanty, but as far as can be ascertained, enhancements were considerable in the assessment of previously backward estates, while reductions were made in the case of the populous well-cultivated villages, which had long contributed more than a sufficient quota to the exchequer. But in these parganas there was great room for enhancement. Whatever terms may have been dealt out to the more distant possessions of the Sayyid families, the villages in which they lived and cultivated had been treated with the most marked consideration, and were in some cases held on nominal assessments. Revenue-free lands, too, were rapidly lapsing to the State, and in these two parganas alone contributed a sum of no less than Rs. 4,389.

But, notwithstanding all enhancement, the assessment of these parganas remained more moderate than elsewhere, for the resettlement of deserted hamlets had improved the condition of many estates and a long period of tranquillity had tended to the improvement of agriculture, while in a tract fairly protected by wells constantly recurring famines would retard progress less than elsewhere on this side of the district.

38. The parganas of Bhúma and Sambalherah had been, as has already been mentioned, finally settled in 1835 by Mr. (afterwards Sir Henry) Elliot, who revised the work of Mr. Glyn, and the villages to the extreme south afterwards added to the new pargana of Bhúmah Sambalherah from Hastinapúr Niloha were settled by the same officer. Sir Henry Elliot in some cases distrusting the soil entries, in others apparently having none ready to his hand, assumed for purposes of assessment the following summary rates for wet and dry land:—

							Wet.	Dry.
							Rs.	Rs.
Hastinapur Niloha	***	•••	•••	•••	***		4 0 0	2 3 2
Bhú:nah	***	***	•••	•••	•••	•••	<b>3</b> 12 10	2 0 0
Sambalherah	***	***	•••	•••	•••	•••	3 3 2	197
								1

Necessity of foregoing

General results of Mr. Thornton's settlement.

Assessment of Bhúma Sambalherah by Sir Henry Elliot. Sir Henry Edict's system of assessment. 39. Sir Henry Elliot describes his method of calculating rent-rates in the following paragraph: "In a district where bath chiefly prevails, and where, if money rates are in existence, they are formed merely by distributing the Government demand by bachh over a certain number of bighas, it is difficult to fix a satisfactory standard of payment for the various quality of soils. Enquiries, however, amongst zemindars and patwaris, and the conversion of average produce into the market values, enable the collector to approximate to a money rate which is as accurate as any one that a zemindar himself could form."

But Sir Henry Elliot distrusted minute classification of soils, "and adopted as a preferable method in every pargana a rate for irrigated and unirrigated land without specification of soil, allowing himself to be guided by the opinion of zemindars rather than rely totally upon the khasras." Rates thus framed were checked by comparison with the books of the mucarari of Raja Nain Singh, by the records of rent suits, and by application to estates generally acknowledged to be fully yet fairly assessed. But Sir Henry Elliot did not always follow his rent-rates, and especially in highly-assessed estates he did not think it necessary to be guided by them. "When a mauzah has hitherto paid its revenue with ease, and no cause whatever exists for abating it, except the fact of its paying a higher average than prevails in the neighbourhood, I have not thought it necessary to lower it."

Proportion of the assets taken by the State. 40. Sir Henry Elliot nominally "deducted 20 to 50 per cent. from the jamabandi, according to the circumstances of each village," and professed to assess as a rule at 70 per cent.; but in many cases his assessments were terribly severe, and it is likely that the demand in the parganas assessed by him on this side of the present district of Muzaffarnagar approached on an average more nearly to 80 per cent. Mr. Thornton assessed the parganas included at that time in Muzaffarnagar at 65 per cent. of the assets, and the addition of one-half to the old jama of this tract will give a fair estimate of the assumed assets of thirty to forty years ago.

The two systems of assessment opposed to each other.

The systems of Mr. Thornton and of Sir Henry Elliot were diametrically opposed to each other. Mr. Thornton went into considerable detail in his soil entries, and calculated with great labour rent-rates for the various soils of many circles. Sir Henry Elliot, on the other hand, distrusted detailed calculations and preferred general rates applicable to larger circles. In this preference this distinguished officer was no doubt influenced by his earliest experiences in the district of Meerut, and the splendid and generally uniform fertility and high farming in pargana Chaprauli, is, it is likely, to some extent responsible for the extreme simplicity of method which commended itself to Sir Henry Elliot, and to a certain extent to his successors in the But it is unquestionable that a system of assessment which might work well enough in Chaprauli and in the similar parganas now in this district was wholly unsuited to a pargana like Bhúmah Sambalherah, in which ever varying proportions of sand would alter the average value of dry land even if the loam and sand had been throughout the tract of uniform quality. Sir Henry Elliot attached great importance to free and unreserved intercourse with the people, and to this rather than to his system may be attributed the general accuracy of his rates for particular soils; a generally applicable dry rate for parganas like Bhumah and Sambalherah no system that was ever devised could possibly discover.

Moderation of the assessments in the southern parganas. 42. Mr. Thornton with a very different system appears to have obtained fair but slightly full rates, especially for the poorer soils and poorer circles in the north and central portion of the tract; but instead of raising his rates when he came to the southern parganas he lowered them, and we find side by side with the much higher rates of Meerut rates which are shown to be wrong by the assessments of many villages and by the records of Mr. Thornton's settlement. But it is hardly to be regretted that parganas Khátauli and Jánsath, in former days it would seem so seriously overassessed, should have enjoyed twenty years of moderate assessments, for even where Mr. Thornton's assessments most largely exceeded the amounts indicated

by his rates, they were with few exceptions moderate. And it is fortunate that estates which had once been so hard pressed by our assessments and system of collection, should have had an opportunity of recovering themselves. For very many the opportunity came too late: many estates had been sold, many more were mortgaged, and it is hard for a proprietor to recover his position when his land is in the hands of a grasping creditor, from whom in most cases it can be recovered only after an expensive lawsuit. But since 1841 it can at least be said that in the greater portion of this tract transfers have not been owing to the severity of the assessments, and only to a slight extent to the rigidity of our system. Sayyid extravagance, however, continued as reckless as ever, and during the period of Mr. Thornton's settlement one-third of the total area of this tract was transferred. But this portion of its history will be dealt with after the conclusion of this narrative of successive settlements.

43. Owing to the destruction of the records, it is impossible to trace with accuracy in all cases the reductions which have been made on account of land taken up for public purposes, and the additions to the land revenue on account of resumed revenue-free grants, but the subjoined statement shows the difference between the demand of the first and of the last year of Mr. Thornton's settlement:—

				Ì	1841.		1	1862.		
				-	Rs.	8.	p.	Rs.	a.	p.
Púr Chapár	•••		•••		56,808	0	0	56,343	3	6
Muzaffarnagar	***	•••	•••		59,849	Б	6	59,951	15	5
Bhúkarheri	•••	•••	•••		47,001	0	0	48,202	7	0
Khátauli	~1	•••			68,171	2	0	65,913	14	0
Janli Jánsath		••• .	•••		56,418	0	0	56,152	7	7
Bhúmah Sambalherah	***	***	100	•••	35,71 <b>5</b>	0	0	36,390	U	0
			Total		3,23,962	7	6	3,22,958	15	6

. The old assessments fell upon the areas on which they were assessed at the following rates per acre:—

Of total area.	Of culturable and cultivated area.		Of cultivated area.
Rs. a. p.	Rs. a. p.	•	Rs. a. p.
0 14 5	1 2 2		1 7 5

Mr. Thornton's settlement followed close upon the famine of 1838, and it may be assumed that, following so closely after so terrible a drought, an officer assessing a dry tract would be duly influenced by the effects of so great a calamity. Mr. Thornton is singularly silent on the subject, and it is probable that then as now, even in dry villages, the traces of a drought were soon effaced; but it is likely enough that the very large area of fallow is due in some measure to the drought which preceded measurements. In Bhumah Sambalherah the severity of the drought was aggravated in many cases by the heaviness of the assessments, and the famine of 1838 was more severely felt. But for the full period for which Mr. Thornton's settlements were fixed this tract enjoyed comparative peace and prosperity. On the 29th April, 1854, the Ganges canal was opened, and from that year irrigation steadily increased and was gradually extended to the more distant villages. The canal, too, provided communication with the more distant districts to the east, and the construction of the grand trunk road through this tract secured easy communication with the markets both to the south and north. Before the scarcity of 1861, therefore, this portion of Muzaffarnagar was generally secured from the most ruinous effects of drought, and the canal and a metalled road afforded easy means of export to the south and east.

45. And in few parts of the country did the disorders of the mutiny inflict less serious or lasting injury. The great majority of the influential Sayyids remained on the side of order, the towns escaped from plunder, and the communities held their own. Here and there an unpopular Bania was robbed, or a Sayyid zemindar or lawless band of Gújars and Játs plundered hamlets or levied tribute, but this was more the case in the Ganges valley than in the upland. Confiscations were trifling in extent, aggregating only 2,635 acres in the whole tract east of the Káli, and loyal

General prosperity of the tract during the period of settlement.

Comparatively unimportant effects of mutiny and famine. inhabitants of the eastern parganas were recompensed for their services by the grant of confiscated estates beyond the Hindan. The district officers maintained their position in Muzaffarnagar from first to last, and little was heard of the permanent injury caused by either mutiny or drought in the upland portion of the Ganges and Káli Doáb, until the settlement of the tract was challenged.

In May, 1861, the Commissioner of the division, writing to the Secretary of the Central Relief Committee at Agra, expressed his surprise at the flourishing aspect of the country through which he had passed during his cold-weather tour. He dwelt upon "the fertility resulting from irrigation," and stated that throughout the canalirrigated tract from Púr to Muzaffarnagar, thence to Bhúkarheri, and from that southwards to Khatauli, he "found a continued sheet of fine wheat and barley, save on sandhills, and even in such places fair crops were to be found." The "dry and sandy tract" of 1841 had been changed into a country with plentiful irrigation supplied flush from the canal at a minimum expenditure of labour. To the northern parganas this brought better crops in ordinary seasons, and in years of drought security and in many cases unusual prosperity. In the southern parganas in which irrigation from wells had formerly been fairly general, irrigation had been largely extended, and the substitution of canal for well irrigation, undesirable in many respects, had the effect of economizing labour in many of the best villages, and of thus setting free for other agricultural work the men and cattle that had been toiling at the wells.

Improvement of the tract during Mr. Thornton's settlement.

46. As I shall have farther on to discuss at length the improvements which have taken place since Mr. Thornton's settlement in 1841, it is only necessary here to show shortly the main points which led to the disapproval of the assessments of Messrs. Martin and Grant, and for this purpose comparative irrigation statements, and, as far as they can be given, comparative crop statements, are the most clear and cogent arguments which can be adduced.

Conparative statement of areas.

					Assess-	~ · ·		Cu	LTIVATED.	
Parge	na.		Period.	Total area.	able area.	Cultur- able.	Fallow.	Wet.	Dry.	Total.
				Aores.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Púr Chapár	•••	{	1841	55.026	45,626	2,97 !	5,533	53	37,069	37,122
I u. Omput	•••	{	1868	57,289	46,048	3,918	1,672	25,852	14,606	40,458
Bhúkarheri	100	!	1841	62,811	49,408	6,008	8,570	162	34,668	34,830
	***		1863	64,491	50,909	4,278	2,438		18,844	44,198
Muzaffarnagar	•••	{	1841	68,144	47,957	3,886	4,213		36,725	<b>39</b> ,858
Ba-	•••	(	1863	69,538	50,245			21,664	20,253	41,917
Khátauli	•••	{	1841	62,228	46,515	3,844		10.812		38,316
	•••	···· }	1863	62,278	46,881	4,844		19,886		40,364
Jauli Jánsath		\$	1841	61,922	54,824					43,740
0 0	•••	}	1863	61,971	54,600			18,564	30,199	48,768
Bhúmah Sambal	hersh	\$	1841	48,715	39,932			1,200	26,357	27,557
	II C. MIL	{	1863	48,863	89,573	2,402	2,900	8,125	26,146	84,271
,	<b>Fotal</b>	(	1841	358,846	984,263	30,443	32,897	21,683	199,790	221,423
		į	1863	364,430	288,206	21,954	16,286	119,440	130,526	249,966
Differ	ence	•••	l	+5,584	+3,948	-8,489	- 16,111	+97,807	-69,264	+28,543

Comparative crop statement.

Pargana.	Period.	Sugar- cane.	Cotton.	Dhán or common rice.	Munji or finer rice.	Total kharíf.	Wheat.	Barley.	Total rabi.	Assessment.
Púr Chapár, {	1841	1,485	1,114	1,485	***	20,046	10,765	1,856	17,076	Ra. 56,343
Muzaffar-	1863	8,266	1,348	732	204	22,852	10,433	3,370	17,606	59,250
	1641	1,594	797	1,196	***	21,528	12,755	399	18,335	59,952
hagar. (	1868	2,816	1,011	7,034	147	22,195	12,081	1,616	19,722	68,443
Bhúkarheri,	1841	1,893	697	1,742	***	19,858	6,966	3,483	14,977	48,202
, (	1863	2,787	900	489	810	27,131	8,035	4,707	17,062	55,951
Khatauli	1841	1,916	1,149	1,149	•••	21,457	11,495	383	16,859	65,914
	1863	4 393	1,256	987	284	22,254	10,333	585	18,110	66,811
Jánsath {	1841	1.750	875	2,187	•••	25,807	8,748	8,499	17,933	56,152
Jansain {	1863	8,314	1,601	831	29	30,751	6,673	1,621	18,012	58,578
Total {	1841	8,138	4,632	7,759		1,08,686	50,729	9,620	85,180	2,86,568
	1863	16,616	6,116	4,073	1,474	1,25,183	47,555	11,899	90,512	3,06,532
Difference		+8,478	+1,484	-3,686	<b>41,474</b>	+ 16,497	-8,174	+2,279	+5,332	+21,969
Bhumah Sam- (	1841			Cannot	be ascer	tained.		l —		36,390
balberah }	1868	2,073	973	256	447	20,886	5,522	2,394	13,384	

Notwithstanding the changes which had taken place during the period of Mr. Thornton's settlement, the improvement in communications, the enormous increase in the irrigated area, the rise in prices, the increase in population, and the great progress in agriculture, the assessments were but little raised, and of the small increase of Rs. 21,298, less than 7 per cent., a portion was owing to the lapse of revenue-free land about the period of settlement.

- 47. The reduction in the share of the assets taken by the State from two-thirds to one-half, however, renders all comparison between two settlements concluded on different principles unfair and misleading, and it is necessary to compare the assumed rentals and assumed rent-rates in order to obtain a correct view of the result of settlement operations. If for the whole tract an assessment at two-thirds of the assets be assumed, a land revenue amounting to Rs. 3,23,962-7-6 would involve a rental of Rs. 4,85,943, whereas the half-asset assessment fixed in 1863 points to a rental of Rs. 6,88,502. So far, then, there is nothing to show that the assessment of 1863 was insufficient, for it is not prima facie improbable that an increase of more than Rs. 2,00,000 might fairly represent the value of slightly increased cultivation amounting to 28,543 acres, and of the supply of irrigation for 97,807 acres previously dry. But, as has been already explained, there was no good reason for assuming that the rent-rates of the old settlement were so absolutely correct as they claimed to be, and it was notorious that in all but the most northerly pargana Mr. Thornton's assessment was low, and in the southern parganas distinctly so; still, notwithstanding the general reputation for leniency which the old settlement possessed, and notwithstanding the higher rates recorded in the papers of the old settlement, and the still higher rates assumed thirty years before for the adjoining parganas in Meerut, the rent-rates of Mr. Thornton's settlement were generally followed, and where they were exceeded, the rates were not, except in Khátauli, permitted to guide the assessments.
- Mr. Thornton's system, too, depended so much upon the accurate entry of misan or manured land, that the application of his rates to soil areas carelessly recorded could not but yield unsatisfactory results. Mr. Thornton estimated that a cane crop in 5 per cent. of the cultivated area involved 161 per cent. of misan. Now in one pargana, Muzaffarnagar, in which the cane crop covered nearly 7 per cent. of the cultivated area, only 12 per cent. was recorded as misan; in Khátauli barely twice the cane area was entered manured; and only in Pur Chapar and Bhukarheri, in which parganas the rates did not guide the assessments, was the recorded area of misan three times the area covered with sugarcane. In the whole tract under review the percentage of sugarcane was 8, and that of misan, instead of being 26 as Mr. Thornton's proportions required, remained at 18, so that more than 20,000 acres which ought to have been misan were recorded rausli; and even this estimate is too small, for, as will be shown later, a better description of rice grown ordinarily on manured land had been introduced, and was far more largely grown than the crop statistics indicate. The effect of these inaccurate soil entries varied in different parganas, but wherever the assessment followed the rates, the smallness of the misan areas necessarily lowered the In Khátauli, the average assumed rate for wet land was lower than that assumed for the worst circle in the adjoining pargana of Meerut thirty years before. In Bhúkarheri, again, Mr. Thornton's dry rates when applied to the areas of the new settlement, whether irrigated or unirrigated, gave an assumed rental in excess of that taken for granted by the new demand, so that the supply of irrigation to 25,187 acres in a previously unirrigated pargana had been entirely left out of consideration. In Púr Chapár a similar calculation showed that, assuming the soil areas to be correct, a sum of Rs. 3,684 had been practically assumed as the increase in the value of land due to the irrigation of 25,799 acres.
- 49. Considerations such as these, and the fact that throughout the six parganas rent-rates which towards the south fully confirmed those which had been found suitable to the adjoining parganas of Meerut thirty-five years before were found to prevail generally, led Government to disallow the settlement of the Ganges canal tract and

Comparison of rentals assumed by Mr. Thornton and by his successors.

Additional error entaile by inaccurate soil entries

Revision of settlement

to order a revision. In this way the investigation with a view to permanent settlement which had been begun in 1868, led to the disapproval of the settlement of that portion of the district in which by far the greatest progress had been made.

Advantages and disadvantages of the course followed.

The fiscal history of the tract has now been brought down to the spring of 1870, when the orders of Government on the subject were issued; but before turning to the settlement operations which were begun towards the close of that year, I would devote a few lines to the consideration of the advantages and disadvantages of the course that has been pursued. The revision of a settlement so soon after its completion is an operation which ought of course, if possible, to be avoided, for it involves much expenditure to Government and great annoyance to the people, and to compensate for these very distinct disadvantages very great benefits must be obtained. Fortunately the injury caused to agriculture by the duration of settlement in a canalirrigated tract such as this was comparatively trifling, for the people know well enough that in the majority of cases the areas of the best crops can be ascertained for a considerable number of years by consulting the records of irrigation, and the profits of a year of drought and high prices are so great that no thought of the future is powerful enough to overcome the anxiety to reap the profits within the reach of the cultivator. The experience, moreover, of landlords and tenants at the recent settlement had convinced both parties that to defraud Government had its disadvantages. Many a landlord, after scheming to obtain a low assessment, had been horrified to find that the settlement officer felt bound to consider his assessment a half-asset one, and had when fixing rents simply doubled it to obtain the rent-roll. In this way a landlord not infrequently lost seriously by his success, for the profits that were fixed for him were a percentage on an insufficient revenue demand. The cultivators, on the other hand, had discovered that it was unwise to defer questions of rights and rents until after settlement, for then the entries of the settlement records were apt to be summarily upheld, and many a man induced by his landlord to refrain from inconvenient applications during settlement found that his opportunity had been lost.

Both classes of the community, therefore, seemed on the whole anxious to obtain a definite settlement of their claims rather than to unduly restrict the revenue of the State; and whether it was owing to the natural tendency to ask for more than was expected, to enmity to occupancy right, or to the too moderate estimate of the value of land made by the assessing officer, the landlord's claims made before assessments were given out were generally far in excess of those which were eventually allowed.

Unsatisfactory nature of the work.

51. I do not think, then, that the cultivation of the best crops was to any great extent purposely neglected during settlement owing to the influence of the landlords, although in some instances this was no doubt done in order to obtain low rents at the landlord's expense. But although these objections to a revision of settlement were not felt much in this tract, there was something extremely unsatisfactory in the work. Entering upon the re-settlement of a new district, a settlement officer may fairly feel that his presence is required. The old maps and records are to a great extent out of date; the village papers have become more or less crowded with errors time has worked many changes, and assessments, even if they had been originally perfect, must have become unequal; new questions have arisen which call for adjustment, and after a twenty or thirty years interval a re-compilation of the records is, as our system has hitherto been administered, expedient, altogether irrespective of the enhancement or reduction of the Government demand. But after an interval of five years the people at large look upon the re-opening of a settlement as an unmitigated nuisance. Some no doubt are glad of a fresh opportunity of preferring claims most of which have been disposed of before, and others have grievances which, it may be, are worthy of attention, but which might be righted in a less costly manner. On the whole, however, a revision after so short an interval is distinctly unpopular with the people, and must prove irksome and unsatisfactory to the officer who undertakes it.

Necessity for accurately prepared statistics.

52. On the other hand, experience has shown how thoroughly unsatisfactory and unsafe a revision on an untrustworthy basis must necessarily be; and with the experience of such officers as the late Sir Henry Elliot and of the late Mr. Wynne in the parganas adjoining this tract on the south and north before me, I can hardly regret that a detailed revision should have been determined upon, and that I should have been spared the doubts and difficulties which rendered the work, at different periods, of men both above average capacity and one of altogether exceptional ability, either in itself unsatisfactory or at least incapable of satisfactory explanation. For whatever may be the case in Meerut, there can, I think, be no question that not a few of Sir Henry Elliot's assessments in this district were from the beginning unrealizable, and that even before the introduction of irrigation in a tract with ever-varying proportions and qualities of sand, no officer of whatever ability, power of observation, and faculty of acquiring information, could effect a satisfactory and equal settlement, except on the basis of accurately recorded soil areas. For in no branch of administration is it more true than in settlement that "with equal natural ability, equal study, and equal experience, the man who is provided with a good method will outstrip him who employs a feeble or defective method, or who trusts to mere common sense;" and those who follow in the footsteps of Sir Henry Elliot require all the help which a better method, more accurate details, and more time for the study of local peculiarities can afford, to enable them to cope with difficulties which his altogether exceptional ability and professional knowledge failed to overcome.

53. And costly, tedious, and unsatisfactory as this revision has in many respects proved, it could hardly be avoided. Either the Meerut assessments or the Muzaffarnagar assessments were clearly and seriously wrong, and investigation proved that the demand in Muzaffarnagar was needlessly low, and that the rates on which it had been based were shown to have been wrong by rents prevailing in the tract itself and by comparison with the rent and revenue rates of all surrounding parganas. And further experience has proved that the Meerut assessments, so far from being severe, have throughout leaned to the side of moderation, and in numerous instances have proved to be extraordinarily light. And it is almost certain that succeeding years will bring still further proof of the necessity of the course which was adopted.

Necessity for revision.

54. In the complete destruction of records at the mutiny there passed away all accurate information regarding the coercive processes for the earlier periods of Mr. Thornton's settlement, and for the later periods the number of coercive processes depends as much on the system followed as on the normal pressure of the demand or on exceptional calamities of seasons. It was found in the valley portions of this district that the ruin of the extensive tracts from marsh and floods had left no trace in the coercive processes of the period, and in all districts there is a tendency to avoid processes which have to be reported on, and to substitute those which are at once prompt, easy, and effective. In the event of difficulty in collection, the easiest process is for the tahsildar to force either sale or mortgage; and when this is done, as was the case in the valley estates, overassessment or deterioration increases the number of private transfers, but leaves no mark in the records of coercive processes. But as a rule, coercive processes were not much required, and even if their history could have been made complete, it would not have been of any practical use.

Coercive processes-

55. The wholesale destruction of records has also rendered unusually difficult the compilation of satisfactory statistics regarding transfers. The statements compiled at the time of Mr. Martin's settlement were compiled for whole parganas, and it was found impossible with any approach to accuracy to do the work over again for the upland portions of parganas alone, and it was necessary to rest satisfied with the following statement, which for purposes of comparison at all events is not always satisfactory:—

Transfers.

	1		1		TRANSFER BY	PRIVATE 8	SALE AND MORTG	
Pargana.		Area in acres.	Jama.	Whole estate.	Portions.	area in acres.	Price.	Jama.
Púr Chapár during period of 20 years from 1842 to 1861.	Pargana statistics at Mr. Thornton's settlement in 1841.	58,360	Rs. 67,027		Price per acre	5,911 7 0 1		Rs. a. p.
During period of 9 years from 1862 to 1870.	Pargana statistics at settlement in 1863.	58,699	59,730	•••	30 8 6 9 1? Price per acre	2,314 11 13 9		,
	Total				Price per scre	8,255 8 6 1		7,998 8 1
Muzaffarnagar dur- ing 20 years.	At Mr. Thornton's settlement in 1841.	68,144	•••		Price per acre		1,21,380 0 0 25 years' jama	
During 9 years	At settlement in 1863,	69,588	•••	•••	79 10 8 8 10 Price per acre		86,491 13 8 15 years' jama	5,845 5 5
	Total				Price per acre		2,07,871 18 8 19 years' jama.	
Bhúkarheri during 20 years.	At Mr, Thornton's set- tlement in 1841.	82,654	•••	1	338 0 7 18 0 Price per acre		67,527 10 0 5 years' jama.	
During 9 years	At settlement in 1863,	64,110	•••	1	121 1 0 14 0 Price per acre		1,15,792 0 0 17 years' jama.	
!	Total				Price per acre	26,277 7 11 9		
Jauli Jánsath dur- ing 20 years.	At Mr. Thornton's set- tlement in 1841.	60,765	56,070	2	228 6 14 12 15 Price per acre	10,796 7 0 6		
During 9 years	At settlement in 1863,	60,839	58,578	•••	171 7 18 5 3 Price per acre		1,10,158 8 9 15 years' jams.	
	Total				Price per acre	17,147 10 18 7	1,86,043 8 9 10 years' jama.	
Khátauli during 20 years,	At Mr. Thornton's set- tlement in 1841.	53 257	65,918	9	927 0 16 17 13 Price per acre		1,32,~97 8 0 9 years' jama	-
During 9 years	At settlement in 1863,	53,279	66,813	2	132 15 0 17 19 Price per acre		1,79,469 0 3 24 years' jama	
	Total				Price per acre		3,12,266 8 3 14 years' jama	
Bhúmah Sambal- herah during 20 years.	At Mr. Thornton's set- tlement in 1841.	79,191		8	268 0 16 4 0 Price per acre		98,019 0 0	
During 9 years	At settlement in 1863,	48,831			107 15 1 3 13 Price per acre	8,262 6 1 <b>3</b> 10	56,732 5 9	4,983 \$
!	Total				Price per acre		1,54,751 5 9 11 years' jama	
Total of six parga- nas, during 20 years.	Statistics at Mr. Thornton's settle-	4,02,371		15	Price per acre		5,37,005 0 0 91 years' jama	
During 9 years	ment in 1841.  Statistics at settlement in 1863.	8,55,296	•••	3	642 17 10 14 2 Price per scre		5,76,439 0 5 16 years' jama.	
	Total				Price per acre		1,113,444 0 5 12 years' jama	92,130 2 5

•	Tra	**FER BT	PUBLIC SALB.				TOTAL TI	RANSFE <b>RS</b>		EXEMPT FRO
Whole estate	Portions.	Area in acres.	Price.	Jama.	Whole estate	Portions.	Area in acres.	Price.	Jama.	Area in acres.
	Price per acre		Rs. a. g. 28,887 12 9 5 years' jama,		-	Price per acre	9,484 7 7 8	Rs. s. p. 70,283 10 9 7 years' jama.	Re. a. p. 10,374 15 5	48,926
••	16 5 1 11 9 Price per acre	2,1°0 10 15 3	12,157 7 5 8 years' jama,			46 18 8 1 6 Price per acre			4,760 15 4	55,245
	Price per acre	4,683 8 13 9	41,045 4 2 6 years' jama,	7,149 6 8		Price per acre	12,888	1,10,236 6 2 7 years' jama.	15,135 14 9	
90-	Price per acre	7,385 7 <b>4</b> I	53,199 0 0 9 years' jama,	5,682 10 6		 Price per acre		1,74,57 <b>9</b> 0 0 17 years' jama.	10,550 11 6	49,788
	9 12 17 12 7 Price per acre		14,807 2 11 10 years' jama	1,444 4 6 		89 3 5 15 17 Price per acre	5,481 18 7 9	1,01,299 0 7 14 years' jama.	7,289 9 11	64,057
	Price per acre	8 508 7 15 10		7,126 16 0		Price per acre	23,837 19 15 0	2,75,878 0 7 15 years' jama.	17,840 5 5	45,701
	219 8 6 16 3 Price per acre		58,364 3 3 5 years' jama,			557 8 14 14 8 Price per acre		1,25,891 13 3 5 years' jama.	<b>24,525 13</b> 9	46,033
	24 4 15 16 15 Price per acre		20,744 14 3 21 years' jama,	974 4 11		145 5 16 10 15 Price per acre ,		1,36, <b>53</b> 6 14 3 18 years' jama.	7,631 1 <b>3</b>	54,558
	Price per acre	19,901 8 15 7	79,109 1 6 6 years' jama,	12,490 6 10	-	Price per acre	46,178 5 10 11		82,156 15 0	
po-	56 12 5 5 11 Price per acre		17,375 0 0 9 years' jama,	1,904 11 1		284 18 19 18 6 Price per acre			12, <b>59</b> 6 0 7	48,508
	31 10 0 1 14 Price per acre	775 9 10 2	7,468 0 0 10 years' jama	714 <b>2</b> 0		202 17 13 6 17 Price per acre	7,126 16 8 1	1,17,626 8 9 15 years' jama.	7,944 11 2	53,713
	rice per acre	2,286 il 1 9	2-2,843 0 0 9 years' jama,	2,618 13 1	- -	Price per acre	19,383 10 14 1	2,10,886 8 9 10 years' jama.	20,540 11 9	41,456
10	31 <b>2 2 17 1</b> 15 Price <b>per scre</b>	15,657 12 1 11	1,89,734 14 0 9 years' jama,	•••	•••	539 3 18 19 8 Price per acre	11 8 7	9 years' jama.	36,576 15 0	<b>25,50</b> 3
	92 7 19 16 10 Price per acre	3,818 18 9 11	71,60? 8 3 13 years' jama	5,299 3 2	2	225 3 0 14 9 Price per acre	10 243 24 7 3	2,50,471 8 6 20 years' jama.	12,781 7 10	43,036
•••	Price per acre		2,60,737 6 3 10 years' jama		::	Price per acre	38,197 15 0 0	5,78,003 14 6 12 years' jama.	49,358 6 10	15,082
	122 14 4 0 0 Price per acre		34,595 6 0 9 years' jama,	4,017 7 5 	4	385 15 0 4 0 Price per acre	31,796 4 2 9	1,32,614 6 0 10 years' jama,	12,851 8 8	47,395
9 e e	28 18 14 0 10 Price per acre		10,682 0 0 14 years' jama,	743 14 6	. <b>.</b>	131 13 15 4 3 Price per acre	9,124 7 6 1	47.414 5 9 12 years' jama.	<b>5,727 0</b> 9	<b>39,7</b> 07
_	Price per acre	10,293 4 6 5	45,277 6 ° 10 years' jama,	4,761 6 11	 	Price per acre		2,00,028 11 9 11 years' jama,	18,578 9 5	
	Price per scre		3,82,156 4 2 7, years' jama,	50,727 3 11 		Price per acre	1,36,418 6 11 10	9,19,161 4 0 6 years' jama.	1,07,476 0 11	2,65,953
			1,36,8 <b>62 0</b> 10 13 years' jama,		 	840 16 19 13 7	44,985 15 13 2	7,13, <b>3</b> 01 1 3 15 years' jama.	46,134 14 3	3,10,311
_	Price per acre	65,041 7 15 8	5,19,018 4 10 8 years' jama,	61,480 12 6	 	Price per acre	1,81,408 9 0 0	16,82,462 5 3 11 years' jama.	1,53,610 15 2	

Sambalherah, the transfers in valley estates are also included, but those for 9 years are for upland villages alone.

Large area affected by transfers not due to assessments.

The total amount of land transferred has been very great, amounting to more than a quarter of the total area during the twenty years of Mr. Thornton's settlement, and to nearly one-eighth in the uine subsequent years. But in a tract owned for the most part by Sayyids, extensive transfers often indicate only the impecuniosity of the sellers, and have no necessary reference to the incidence of the revenue. Transfers have continued during a settlement which was proverbially light, and at prices which prove that the assessments leave a large margin of profits. In such cases the best test of the fairness of the demand is that of the prices which have been obtained, and in all parganas the assessments stand the test in a manner which shows that the demand cannot have been otherwise than moderate. And on the whole prices show a distinct advance, although in some parganas there are anomalies, as in Pur Chapar, where in the case of private transfers proportion of the price to the revenue is the same in the latter period as in the earlier one; and in Muzaffarnagar, where it is considerably less. The increase in the price per acre may be attributed partly to the exclusion from the statistics of the later period of the estates in the Ganges valley, but is in a great measure owing to the greater intrinsic value of land when supplied with irrigation from the canal, and the very substantial rise in the proportion of the price obtained in the later period to the land revenue evinces the moderation with which the demand has been fixed. And there can be little question that the price of land was kept from rising still higher during the latter period by the circumstance that the assessments were never sanctioned, and after a time remained in force, only pending revision.

The largely enhanced assessments that were fixed in consequence of the present revision did not on this ground exercise a necessarily unfavourable influence on the price of land. The new demand diminished profits, but it brought certainty and put an end to the suspense which had prevailed; and it is confidently believed that the price of land is now higher than before, and it is certain that even during settlement prices amounting to from twenty to thirty times the Government demand were easily obtained for canal-irrigated estates of only average quality.

Effect of transfers on the position of the Sayyids.

57. The effect of transfers on the position of the Sayyids, the chief landowning class in this tract, is shown as follows:—

Pargana.		Total area.	Area owned by other castes at conquest.	Area in the hands of Say- yids at con- quest.		Area now in the hands of Sayyids.
		Acres.	Acres.	Acres.	A cres.	Acres.
Púr Chapár		54,152	51,903	2,249	138	2,111
Muzaffarnagar	•••	59,278	6,795	52,483	35,865	16,618
Bhúkarheri	•••	62,493	18,749	43,744	18,726	25,018
Jánsath	•••	60,828	1,490	59,338	16,283	43,105
Khatauli		53,417	12,404	41,018	28,190	12,823
Bhumah Sambalherah	•••	48,871	8,411	40,460	15,475	24,985
Total	•••	389,039	99,752	239,287	114,627	124,660

Transfers to new classes of proprietors.

^{58.} The subjoined statement, compiled in accordance with the orders of Government, shows to what extent land has passed into the hands of persons who do not belong to the landowning classes:—

Pargana.	Total area.	Deduct area confis- cated during rebel- lion.	Remain-	) YAAP	Area owned by persons deriving their subsistence from land.	Percent- age.	Area owned by others than those subsisting on land.	Per- cent- age.
	Acres.	Acres.	Acres.		Acres.		Acres.	
Jánsath	61,146		61,146	1840	51,820	85	9,326	15
	60,844	45	60,799	1850 1860	50,192	*** 82	10,607	18
	60,816		60,816	1870	49,962	82	10,854	18
	60,762	•••	60,762	Present revision.	50,607	88	10,155	17
Khátanli	56,519		56,519	1840	46,046	814	10,473	18}
	58,977	975	58,002	1850		***	. 13,875	
	53.432		53,432	1860 1870	89,127 89,563	74 74	13,869	26 26
	53,407		53,407	Present revision.	89,208	78	14,199	27
Bh Gkarheri	75,810		75,810	1840	61,750	811	14,060	184
	76,436	986	75.450	1850	49 409	***	91 947	 42
	77,755		75,450	1860 1870	43,608 44,556	58 57±	81,847   38,199	42 <u>\$</u>
Upland under revision	62,251	***	62,251	ווייייייייייייייייייייייייייייייייייייי	48,002	69	19,249	81
Khádir not subject t	15,001	***	15,001	l i	5,150	841	9,851	651
revision.				Present revision.				
Total	77,952	•••	77,252	ا زا	48,152	621	29,100	374
Bhúmah Sambalherak,	79,475	***	79,475	1840	68,810	86}	10,665	18}
	82,668	116		1850	59, <b>39</b> 8	***		•••
	82,062	110	82,552	1860 1870	57,961	71 <u>8</u> 70 <u>8</u>	28,154   24,101	28) 29)
Upland	43,565	***	48,565	12	83,411	761	10,154	28
Kbádir	82,697	***	32,697	Present	22,987	701	9,710	29
Total	76,262	•••	76,862	revision.	56,398	78 <del>1</del>	19,864	26}
Musestarneger	56,263	***	56,268	1840	45,995	82	10,268	18
	56,242	421	EE 001	1850	86,393	***.	20,428	•••
	57,895	•10	55,821 57,825	1860 1870	87,817	681 651	20,008	36 <u>}</u> 34 <u>‡</u>
	58,926	***	58,926	Present	39,938	674	18,998	32
Pér Chapér	55,894	•••	55,894	revision. 1840	46,364	83	9,530	17
	.::	***		1850		•••		•••
	55,888	292	55,596	1860	45,058	81	10,538	19
Upland under revision,	55,827	•••	55,827 58,321	1870	48,888 44,1 <b>3</b> 9	77 831	9,082	28  6 <del>2</del>
Kbádir not subject to revision.	3,810	•••	3,810	Present revision.	2,305	69	1,005	301
·Total	56,531	***	56,581	J	46,444	89}	10,087	17#
	885,197	• •••	885,107	1840	320,785		64,322	
	386,055	2,835	381,220	1850 1860	272,781	71	1,10,449	29
	887,717		387,717	1870	278,742	70	1,18,975	80
Upland	832,132	•••	882,182	Present revision.	250,300	76	81,832	25
Khádir	51,008	•••	51,008		80,442	59	20,566	41
Total	383,140	•••	383,140		280,742	78	102,898	27

59. A comparison of these statements shows that not a little of the land lost by the Sayyids has gone to swell the estates of other landholders and has not established a new body of proprietors.

Re ks on transfers in the different parganss.

Khátauli.

In pargana Khátauli only the lesser Sayyids have in any way held their own, but Ját and Taga communities purchased seven estates early in our rule, and the property alienated during the period of Mr. Thornton's settlement passed for the most part into the hands of the Nawáb of Karnál, and in the most recent transfers of all the wealthy Ját family of Maulaheri in Muzaffarnager has been the chief purchaser. The Sayyids of Jánsath have also been considerable purchasers of the land of their improvident brethren. In this way, although transfers have been very numerous, the trading classes have not acquired very, much land, and have in late years made but little advance.

Jánsath.

In Jánsath there have been ewer transfers, but the mahájan family of Talrab early got a footing in the pargana, and on their decay the lands which they had acquired fell for the most part into the hands of another Mahájan family which had prospered

under the protection of the Jánsath Sayyids. Here, as in Khátauli, the chief purchases by the trading classes were made early in our administration. The chief Suyyid family in the pargana has not been so consistent in its career of extravagance as its neighbours of Khátauli and Muzaffarnagar, whose spendthrift traditions came down unbroken from the days when their ancestors were ministers of the empire; and recently at all events the chief Sayyid family of Jánsath has been distinguished for careful management and an absence of foolish ostentation, but unfortunately it seems destined after avoiding so successfully the Scylla of extravagance, to fall into the equally fatal danger of family litigation. In the meantime, however, the chief family of the Jánsath Sayyids has purchased very largely the land of other less successful houses, and as long as it maintains its present position outsiders are not likely to make much way in this pargana, the less so that the enriched and ennobled branch of the Jauli Sayyids has begun to acquire land in the neighbourhood of their ancestral village. For the last thirty years the hereditary laudholding classes have maintained their ground.

Bhúkarheri.

In Bhúkarheri the Sayyids of Mornah and Tissah have lost much, and the influence of the Landhaurah Rája made this pargana an early prey to the influence of the family which held the office of treasurer to the Raja; and while in other parganas the lesser Sayyids have fairly held their own, in Bhukarheri they have vied with the once grand houses in the rapidity of their decay. The Sayvids of Sambalherah however have purchased largely, and since 1840 the Sayyids of Tissah have recovered much of their property. The proportion of land in the khadir lost to the landowning classes is great, but is not much to be wondered at or lamented. Landowning in the khádir is now at all events a risky speculation more suited to the Bania than to the Sayvid. Improvement by the landlords is hardly to be looked for; oppression of the cultivators on the other hand is not much to be feared in a tract in which tenants are so sought after that they are masters of the situation; and when the circumstances of the people necessitate constant advances, and the uncertainty of the produce is so great, the small money-lender is probably as good a landlord as any one else would be, for his own immediate interest keeps him from being tyrannical.

Bhúmah Sambalterah.

In Bhumah Sambalherah the khadir was owned by many petty landlords who, living close by, have been able to manage the tract, which, moreover, has not deteriorated so much as the khadir to the north. In the upland the severe assessment of a dry pargana must in any case have caused many transfers; and in the branch of the Miranpur Sayyids which rose to distinction under Mahammad Shah after the fall of the Sayyids of Jansath, this pargana possessed a family with ruinously grand traditions.

Muzaffarnagar.

In pargana Muzaffarnagar the Nawab of Karnal, the representative of the chief who held this pargana at the conquest, has acquired much land from the reised descendants of Khanjahan, but both in early and in recent times Mahajans have made large purchases.

Púr Chapár.

In Púr Chapár as in Bhúkarheri the Mahájan family which held the office of treasurer to the Gújar Rája of Landhaurah, obtained an early footing by purchase of the not very assured rights of the Sayyids of Jánsath, who have since parted with the remnant of their property in this pargana. Some, too, of the suddenly constituted proprietors with whom settlements were made on the death of the Gújar Rája early fell into the hands of the money-lenders, but since the construction of the canal Játs and Tagas have more than held their own, and even Gújars have lost but little, and the loss of the ruined khádir is at all events little to be regretted.

Transfers chiefly affected by caste of proprietors.

60. In these parganas, as throughout the district, transfers have been least numerous where village communities owned most of the land, and it is likely that even if our assessments had always been moderate and our method of collection been more considerate than it has been, transfers of the property of Sayyids would have been exceedingly numerous. In many estates, more especially in the northern and eastern parganas, none but the most industrious and thrifty proprietors could pay through a series of years the high assessments, the collection of which was so rigidly

enforced; and although Ját and Taga communities managed to do this, the failure of less model agriculturists was none the less inevitable, and the transfer of many Sayyid properties may in this way be attributed to high assessments and to the rigidity of our system of collection. But it is likely that if more Sayyids had escaped the earlier dangers, the chief present result would have been that more would have survived to fall a prey to their own reckless extravagance, which has in late years maintained the old frequency of transfers under assessments which have almost invariably been moderate or low. Transfers are likely to be less frequent in future because so many of the poorest Sayyids have now lost their land; but reckless extravagance and embittered litigation will no doubt be as ruinous as ever, although the area that is especially likely to be affected by these influences, so peculiarly strong in the case of Sayyids, is smaller than it was.

61. With the exception of Sayyids and to a certain extent of Patháns also, the other proprietary castes have more than held their own since the beginning of our rule, and have not suffered in recent years. Transfers must of course take place, and in the best communities there are some unthrifty or unfortunate co-sharers whose lands become overburdened with debt, and even the best members of the best communities have their moments of recklessness, and however untiring they may be at their work, however careful in their ordinary management, occasions are certain to arise when the inexorable demands of custom will drive them into extravagant expenditure.

That the improvident classes alone have suffered very severely is of itself sufficient to indicate that, as a rule, severity of assessment has had comparatively little to do with transfers, and the fact that the proprietary communities in Púr Chapár have stood their ground so well is a proof that, even under severe assessments, collected with unbending severity, hard-working thrifty communities were able to pay their way.

Of all castes the Tagas cling most resolutely to their land. The ineptitude for self-government of a Ját community often mars its efficiency in keeping as well as in acquiring land, while Rájputs and Gújars have now lost much of the security which their old character for turbulence gave them. In industrious and successful agriculture some Gújar communities come near to the best in the district, and pay as high rents and as high a revenue as their neighbours, but on the whole they have in most parganas lost more land than communities of other castes. Less industrious as a class than Játs or Tagas, they are as a rule an easier and safer prey than Rájputs, and when reduced to the position of cultivators they are less intractable and less mindful of their real or fancied wrongs.

62. And turning to the new class which has acquired land, justice compels me to admit that in this district the Banias have on the whole shown themselves to be no worse than proprietors of other castes. Almost without any exception large proprietors have done little for their land, and Banias, if they do nothing more, generally manage to settle hamlets where population is deficient. It is only the smaller Bania landlords that have time for detailed oppression, and the worst of these are certainly bad enough; they treat their tenants as they do their debtors; their chief endeavour is to get them more and more into their hands, to reduce the occupancy tenant to the position of a tenant-at-will, and if he is then troublesome, i. e., more independent than the cringing Chamar, to oust him from the village. But the worst petty Bania proprietor is equalled in harshness and surpassed in courage and determination by the bad Sayyid or Pathan landlord, and except that people resent oppression on the part of a new tyrant more than they do that of an old one, it is likely that the unprejudiced and unprotected cultivator would find little to choose between the two-between the new landlord and the old. The protected tenant, on the other hand, is safer with the old landlord, who has influence enough to obtain from the tenant the not very valuable but highly prized presents of hay and straw, fuel, molasses, &c., upon which in many villages the Bania can only count when the tenant Hindu communities hav

The new class of proprietors.

is deprived of his rights. It is probably from the same cause, the feeling of the comparative security of their influence, that Sayyid landlords often allow to their tenants a freedom in building and in planting which the Bania would never cheerfully yield; and on the whole the old proprietor, if when roused he is a more violent, is a less insidious enemy than the new, and when he is on good terms with his tenants is a more generous and kindlier friend.

The evil of transfers from resident proprietors

63. But all transfers of the ownership of land from cultivating proprietors form a serious hardship, and it is much to be regretted that they have not been more generally avoided. It matters comparatively little whether one absentee landlord succeeds another; but when the proprietor who has lost his rights lingers on in his ancestral village, reduced in circumstances and degraded in position, pondering over his misfortunes, he is an unquestionable element of discontent. Recent legislation has in some degree ameliorated the position of ex-proprietors for the future, but nothing unfortunately was done for those who had already lost their land, many of whom even in this district had succumbed to the revenue system of our Government as much as to accident or their own extravagance.

## CHAPTER III.

COMPARISON OF PRESENT AND FORMER CONDITION OF TRACT UNDER REPORT.

As the district had been so recently surveyed, it was not necessary to prepare new maps; and when the work of revision was begun in October, 1870, it was not supposed that the correction of the maps of 1862 would prove to be so tedious and troublesome as it has been. But even in a highly cultivated tract the changes in the form and size of fields are incessant. Where the land is good, division on inheritance and even the partition of fields for the convenience of cultivation change the number and the size of fields throughout a village in a very few years; and where the land is poor, and especially where it is sandy, and is cultivated by tenants without occupancy night, the boundaries of fields are changed almost year by year.

In this way the task of correcting the maps of Mr. Martin's settlement proved to be much more onerous than was looked for, and in the case of many villages the corrections in red ink almost amounted to a re-survey. But if this portion of the work was both more tedious and more expensive than was expected, its completion has been of considerable immediate advantage, for an antiquated map of the highly cultivated, canal-irrigated land necessitates constant re-measurement by the officials of the

Irrigation Department.

- 2. But the real necessity of a correction of the maps arose from the absolute need of trustworthy khasras before a revised demand could with confidence be imposed and distributed and before the new rent-rolls could be compiled. The comparative statement of soil areas on page 64 will show how great has been the difference between the soil areas recorded at the recent settlement and those entered in 1871-72, and the difference is even greater than a cursory examination of the statement in question might lead one to suppose. The soil classifications adopted by Mr. Thornton and Sir Henry Elliott in 1841 and 1835 respectively have already been described, and it has been shown how Mr. Martin, after strictly adhering to Mr. Thornton's system for purposes of assessment, abandoned it as impracticable when he came to adjust the rent-rolls of the tract. The final experience of Mr. Martin's settlement, therefore, was against Mr. Thornton's system and in favour of one of greater simplicity. Indeed, Mr. Martin's verdict has practically been given in favour of a method little more detailed than that followed in the Meerut district, and in the great majority of villages rent-rates were fixed for wet and dry good land and dry bhur or sand, and occasionally only for irrigated bhur, which was generally classed with ordinary wet land.
- 3. And the change from the system of Mr. Thornton was rendered necessary by the method of agriculture followed by the Játs of the upper Doáb, and by all who have adopted their system of farming. As long as irrigation was only from wells, irrigation and careful cultivation, although less entirely than elsewhere, were in this tract concentrated round the village; but where there was no irrigation at all, sugarcane was frequently grown all over large estates in the fields best suited to it, as is the custom in dry villages even now. When canal irrigation was introduced, convenience of water-supply became a consideration of as much importance as nearness to the village; and as a cultivator could never be certain whether he would have to irrigate that portion of his land sown with ordinary crops, it seems to have been generally allowed that the best policy was to distribute the manure of the village over the whole of the irrigable area, or at least over as large a portion of the irrigable loam as possible.

Where the proportion of sugarcane to the cultivated area is very great, each field comes under cane and the most careful cultivation once in every three years, unless indeed certain fields should be reserved for an equally important crop, such as múnji or the finer rice, and is manured for that crop, alternating with gram. And even when the proportion of the cane crop to the irrigable area is less, the same system

Correction of maps.

New khasras. Change in classification of soils.

Changes justified by system of cultivation.

is followed and sugarcane is planted in extensive clumps, each year in a different direction, so that field after field in its turn, but at a longer interval than in the best villages, comes under the most careful cultivation. Under such circumstances it is almost impossible to secure the accurate entry of manured land. Nearly one-third of the sugarcane recorded in 1841 was grown on land entered unmanured, and it is likely that at Mr. Martin's settlement the errors in the entry of this soil were not less numerous, for whereas in 1841 the area of recorded misan was three and a half times as great as that under sugarcane, at the recent settlement an area less than two and a half times that ordinarily occupied by sugarcane was entered as manured. The 45,339 acres of Mr. Martin's records have now been increased to 65,509; but even this latter area is distinctly too small, and in some parganas is very obviously so.

By Mr. Martin's own experience.

4. So entirely was the difficulty of procuring accurate misan entries in the upper Doáb acknowledged, that, when after assessment Mr. Martin and his subordinates came to fix the rent-rolls, and found sugarcane growing in so called unmanured land, while the misan of his records was in the ordinary rotation covered with wheat, cotton, urd, rice, &c., misan entries were almost invariably disregarded, and rates were fixed for wet and dry good land and for sand. In the western parganas an attempt was made to overcome this difficulty by recording land ordinarily manured, but not manured in the year of measurement as "mubitah." The attempt, however, was no more successful than it had been 20 years before; and although in exceptional cases the help of rates on manured land has been missed, I think that on the whole the determination which I came to of not assuming rates for manured land was sufficiently justified.

Advantages of the change.

5. It is likely enough that when the ordinarily irrigated area becomes more and more distinct, the fields to which manure is ordinarily given will be capable of effective demarcation; but at present the cane crop wanders over the whole irrigable area of most villages, or at least over the whole of the good land and much of that which is sandy, and the fields which one year bear the poorest crops and show little sign of having been ever manured are likely before long to come under a crop of sugarcane and temporarily to equal in productiveness any fields in the village.

There is of course a great difference between the average quality of land in a thickly inhabited village with an enormous percentage of cane and that of the township with a petty hamlet and a small proportion of the best crops; but in such cases it is likely that there is as much difference between the misan of the two villages as between the average of each soil, rausli, 2nd rausli, and bhúr, and it would be necessary in any case to allow for that difference by placing the estates in different circles. The omission of misan removes an additional source of uncertainty and error, and confines the entries to those soils which are well known to the people and on which rents are ordinarily fixed. The extent of manured land was not, however, altogether neglected; it was recorded, and was with the still more trustworthy crop statement considered in each case.

Soil classification adopted.

6. But the soils which were uniformly recorded, and which formed the basis of assessment, are:—

Wet and dry barah or garden land. Wet and dry 1st rausli or loam. Wet and dry 2nd rausli or sandy loam. Dry bhur or sand.

Description of soils. Bárah. The barah of this district is the land round towns, cultivated almost invariably by mális, in which tobacco and vegetables are grown. The area is so small that the fixation of special rates for this land is mainly useful in the assessment and compilation of rent-rolls of exceptional estates in which the extent of this land is considerable, although in the whole tract it is unimportant.

lat rapali or loam.

Under 1st rausli or loam is included the extensive area devoted to the ordinary crops and with no very perceptible admixture of sand. It might in some ways have been better to retain in the soil classification the dákar or clay formerly recorded, but true clay is very limited in area, and can be easily allowed for whether in assessment or when rents are fixed; and as in former days a rice crop was the peculiar feature of clay soil in this district, there was a great likelihood of every rice field, even if sandy loam, being entered dákar. It was this very general mistake which in 1863 led to dákar being classed with the other better soils when rent-rolls came to be compiled. The crops which are ordinarily grown upon good rausli are sugarcane, rice, cotton, maize, jowar, chari (or jowár sown thick for fodder), úrd, and the other better pulses in the rains; and in the cold season wheat, wheat and gram mixed, wheat and barley mixed, gram, saffron, and peas. In this land bájra, moth, and barley should be rarely or never seen, except indeed in the case of barley when it is required for horses, or as an early food crop by a man who has no bad land in which to sow it.

2nd rausli or sandy loam.

2nd rausli or sandy loam was known in the old Meerut settlements as seentah, and under the name now given to it was occasionally recorded in the papers of 1841, and more generally in those of the recent settlement. At Mr. Thornton's settlement a 1st class bhúr was sometimes entered, and this name would have been equally if not more accurate. But wet 2nd rausli has in many cases come under very careful cultivation, and in such land are grown the very best crops, and a plentifully manured field of this land produces excellent cane; indeed, before irrigation became general, slightly sandy loam was selected on a variety of grounds for this crop. But the effect of manure is much less permanent than in naturally better soil; more is wanted to fertilize it, and even if the west winds did not blow the upper layer of sand with its intermixed manure away, more frequent manuring would be necessary, and the inferiority of the soil is shown when the magnificent cane crop is followed by a poor yield of wheat or wheat and barley mixed.

2nd rausli, standing half way between unmixed loam and sand, has no specially characteristic crops, and on it are grown the very best and the worst; indeed, rice is the only crop not generally grown in this soil, but even the finer rice is now sometimes grown in distinctly sandy fields. To attempt to get patwaris and amins to enter land on which cane, cotton, and wheat are freely grown as bhur, even of the 1st class, is almost hopeless, and the denomination 2nd rausli was adopted rather in order to allow patwaris and amins to combine their usual show of zeal for the interests of the State with accurate soil entries, than because the denomination of 2nd class rausli was in itself preferable to that of 1st class bhur. For as a rule the tendency of subordinates is to exaggerate the goodness of the soils rather than to make entries opposed to the interests of Government, and the work of testing officers has generally tended to alter the entries in favour of the people.

Bhúr or sand was in some villages divided into classes by Mr. Thornton: bhúr or level sand and dánda or high uneven sand. But the distinction is not generally made by the people, and needless multiplication of soils is to be avoided. The crops distinctive of bhúr are moth and bájra in the rains and barley in the cold weather, and these three crops cover an area almost equal to the extent of bhúr in the six parganas under report.

Irrigated bhúr has not been recorded in the new khasras, not because bhúr is not irrigated, but because it is not ordinarily irrigated until it is so improved by careful cultivation that it may fairly be classed as 2nd rausli. After the useful experience obtained in the compilation of rent-rolls, I am somewhat doubtful whether it might not have been better to retain in the soil classification irrigated bhúr, under which denomination would have been entered sand which has been in no way improved by cultivation. Throughout settlement operations, however, every effort has been made to avoid the mistake made at the recent settlement of entering too generally the

Bhúr or sand.

Irrigated bhúr.

poorer soils as irrigated. With reference to this point it is most inexpedient to trust too much to future progress, and where the canal distributaries have been in working order for many years, the fact that land has not been irrigated is generally to be accounted for by perfectly valid reasons. Where water can be obtained by lift alone, this of itself is a sufficient reason why water should not be generally taken for such fields in a sparsely populated tract, in which a sufficient area is irrigated flush. Where, moreover, the population is insufficient, it may be that only a portion of the really good land capable of flush irrigation is ordinarily watered, and the extension of regular irrigation in such tracts must necessarily be slow, as it depends upon the gradual increase of population and on the number of cattle. And the statistics of the Irrigation Department show clearly enough that regular, year by year, irrigation extends very gradually. Each year of drought gives an extraordinary impulse to irrigation, but the area irrigated soon returns to something like the old standard, and the really permanent irrigation of the kharif progresses, as might be looked for, slowly.

Irrigation entries.
Exclusion of exceptional irrigation.

7. In the compilation of the new khasras every effort was made to exclude from the area recorded irrigated the land which is watered only in seasons of extraordinary emergency. About once in every decade there is a year of drought so severe that it pays the cultivator to irrigate the very worst land, for not only is the price of grain doubled, but the value of the straw rises in a much more marked ratio, while the serious item in the cost of cultivation—the water-rate—remains unchanged. Although, therefore, the irrigation of such land does not secure a good crop, the cultivators may find that a payment of Rs. 2-4-0 per acre for the preservation of a poor crop of barley for example is remunerative, owing to the increased value of the produce. Such land may not again come under irrigation for many years; indeed, if such land bore a crop of barley in 1861-62, and of bajra in 1868-69, it is quite possible that it may have been irrigated once only in the 20 years during which the Ganges canal has been at work. Now it is very difficult to charge such land an additional rate on account of an advantage which is no doubt distinct enough, but which can be utilized only at long intervals, and to class such land with the ordinarily irrigated fields would be impossible. I have therefore endeavoured to exclude all such land from the area recorded irrigable, and when any additional charge can be made for the possibility of irrigation in a season of drought, it'is both easier and fairer to allow for this advantage when fixing a rent-rate for land which is practically dry. It is owing to the exclusion of such exceptional irrigation from the area entered irrigated, and to the circumstance that in the new khasras the records of irrigation in past years, rather than a vague expectation of rapid progress in the future, have guided the entry of irrigated land; that more especially in the sandier parganas, the new soil statements show a falling-off instead of a rapid increase in the irrigated area, notwithstanding the continual progress which canal irrigation has made during the last ten years.

Comparative statement of areas.

8. The following statement shows the areas of the different parganas according to the records of the three settlements of 1841, 1863, and 1872-73. More complete details, and the particulars of cultivated land, also given in a subsequent abstract, will be found in the unabridged comparative soil statement which forms appendix IV:—

Parganas.	Settlements.	Total area.	Barren.	Beve- nue- free.	Total not assess- able.	Groves.	Old waste.	Recent fallow.	Total cultura- ble.	Cultivat- ed.
		Acres.	Acres.	Acres.	Acres,	<b>≜</b> cres.	Acres.	Acres.	Acres	Acres.
Pta CHAPKE.	Old Recent New Difference between new and old.	55,026 57,289 56,747 +1,721	6,796 8,668 8,422 +1,626	2,604 2,673 2,595 —9	9,400 11,241 11,017 +1,617	146 201 272 + 126	2,825 3,717 2,673 —152	5,533 1,672 686 4,897	8,504 5,590 8,581 — 4,923	40,458 42,194
MUSAPPAR-	Old Recent New Difference between new and old.	68,144 69,538 69,554 +1,410	8,150 7,844 7,292 — 858	12,037 11,449 10,275 —1,762	20,187 19,298 17,567 2,620	961 604 563 +302	3,625 2,730 2,998 —627	4,218 4,994 1,989 — <b>2,32</b> 4	8,328 5,550	41,917 46,436
Butar. Her.	Old Recent New Difference between new and old.	62,811 64,491 64,577 +1,766	11,313 11,494 10,257 — 1,056	2,090 2,088 2,084 — 6	13,403 13,582 12,341 —1,062	110 220 239 +129	5,898 4,058 4,712 —1,186	8,570 2,438 1,014 —7,556	6.716 5,965	44,198 46,271
ЈАнватв.	Old Recent New Difference between new and old.	61,922 61,971 61,968 +41	5,944 6,239 5,934 — 10	1,157 1,132 1,135 —22	7,101 7,871 7,049 — 82	377 385 429 +52	4,474 2,848 8,353 —1,121	6,233 2,659 793 —5,440	5,837 4,578	48,76 <b>3</b> 50,319
Keatauli.	Old Recent New Difference between new and old.	62,228 62,273 62,293 +65		7,699 8,899 8,876 +1,177	15,712 15,447 15,284 —428	756 <b>6</b> 87	3,406 4,088 3,499 +93	1,623 600	6,467 4,786	40,364 42,223
BRUMAH Sanbalmerah.	Old Recent New Difference between new and old.	48,715 48,868 48,923 +208	8,700 9,910 9,388 +688	83 80 52 — 31	8,788 9,390 9,440 + 657	<b>204</b> 191	8,724 2,198 1,755 	2,900 938	5,301 2,884	34,971 36,599
Torat.	Old Recent New Difference; between new and old.	358,846 364,430 364,057 +5,211	50,003 47,701	25,670 26,221 25,018 — 652	74,583 76,224 72,719 —1,864	2,820 2,381	19,684 18,990	16,286	38,240 27,341	249,966 268,997

Discrepancies in the total area.

9. The difference in the total area is not very important, being an increase at the present settlement over the area recorded in 1841 of 5,211 acres, or 1.45 per cent. To a certain extent this increase may be plausibly accounted for by the correction of a few serious mistakes in the measurement, or at least the statement of the areas of certain villages, and more generally, especially in parganas Púr Chapár and Bhúkarheri, to the more accurate survey of the broken land along the edge of the upland. The three southern parganas, it will be noticed, show only the 'slightest discrepancies, and for the whole tract the difference is not important.

Barren waste.

10. Notwithstanding the appropriation of some 5,000 acres for canals, roads, and the railway, the total area recorded barren has decreased by 1,212 acres, or 2.48 per cent., throughout the tract, and this notwithstanding the increase of marsh in the river valleys. Notwithstanding the large additions to the barren area which the construction of the Ganges canal has in one way or other necessitated, the area of so-called barren land has been distinctly reduced in Bhúkarheri, Muzaffarnagar, and Khátauli; in Jánsath, notwithstanding the large area taken up for the canal, the barren area has not increased, and only in Púr Chapár and in Bhúmah Sambalherah is the area of barren waste seriously greater than it was more than 30 years ago. In the former pargana, the lands taken up for the canal and the increase of marsh are quite sufficient to account for the difference, even if the total area of the parganas, the sandiest in the district, there is an unusually large percentage of poor land, and

the population is still insufficient for the effective cultivation of the land entered culturable, so that there was less necessity to invade the so-called barren waste. In some parganas, more especially in Muzaffarnagar and Khátauli, much of the increased cultivation, and of that substituted for the ploughed land taken up for public purposes, has been obtained from the barren waste of earlier settlements, and shallow depressions and wide village roads have furnished much land to the plough.

Revenue-free land.

In this district as elsewhere revenue-free land has decreased in area, and there are still some life tenures to fall in. The increase recorded in pargana Khatsuli is owing to more accurate measurement, and not to the reversal after settlement of the decisions of Mr. Moberly, Special Deputy Collector for the settlement of claims to revenue-free land, as these have been taken into consideration in the statistics of the old settlement. Mr. Moberly appears to have respected all well-supported titles, even when the sanads had been lost, to revenue-free grants by ruling emperors, but to have systematically resumed all grants made under the authority of emperors who were no longer independent. The distinction seems to be a sound one; but Mr. Morberly's orders were set aside, and among the grants which were restored was that of five villages in Khátauli, the revenue of which was assigned in perpetuity to the ancestor of the present Nawab of Karnal, although the grant of four of them dated no further back than the seventeenth year of the reign of Shah Alam. In this way the recent acquisitions of adventurers during the last half century of anarchy were allowed to swell the list of grants otherwise due in about equal proportions to imperial piety, in the endowment of Shekh communities, and to the court influence or gallant service of Sayyid houses during the reigns of Jahángír, Sháhjabán, and Alamgír.

Assessable area.

12. The area recorded assessable has increased in every pargana except Bhúmah Sambalherah, where the falling-off has already been accounted for by the increase of barren waste; in Púr Chapár, Jánsath, and Khátauli, more especially in the two former parganas, the increase is unimportant; and Muzaffarnagar and Bhúkarheri contribute nearly the whole of the addition of 7,075 acres to the assessable area of the tract.

In Muzaffarnagar, the increase amounting to 4,029 acres is due in a great measure to the lapse of revenue-free grants, but partly also to the correction of serious errors, and here more than elsewhere to inroads upon the barren waste. In Bhúkarheri there has been no resumption of revenue-free lands, but more accurate measurements have shown the area of this pargana to be greater than was supposed; and towards the broken land which overhangs the Ganges valley cultivation has been making steady inroads upon land which was formerly recorded barren. But the mere addition of less than 3 per cent. to the assessable area would have had little or no effect on the assessment of the tract, had it not been accompanied, and in some degree caused, by a change in circumstances which becomes more apparent, and will be more properly explained, when the details of the assessable and cultivated areas are considered.

Groves.

13. One of the most satisfactory changes which has marked the period which has elapsed since Mr. Thornton's settlement has been the important increase to the area under plantations throughout the tract which is the subject of this report. In none of the six parganas is there any extent of jungle left, and everywhere but in the south-west corner groves were few 30 years ago: and it is believed that the grove areas of the old settlement, which have been extracted with some trouble from the old khasras, considerably overstate the area at that time under plantations, for in those days bághs were not carefully entered, and it is likely that much land has been included which, with here and there a tree upon it, can hardly be compared with the distinct grove area now recorded. Notwithstanding this, however, the area under groves has substantially increased, and the more detailed statement of grove areas given shows that the increase is still greater in the area still cultivated, in which groves have been planted: and in this respect too it is likely that the figures of the old settlement overstate the area of land under regular plantations. But although the

extension of the grove area has been very great since 1841, especially in the previously dry and ill-watered neighbourhoods, it has not in three parganas continued since the recent settlement. In Muzsifarnagar and Khátauli there has been, in the latter pargana especially, a distinct decrease, owing partly to the demand for wood during and after the construction of the railway, and partly to the unfortunate neglect to secure to the cultivators their ancient rights of planting trees. In Bhúmah Sambalherah the decrease is one for which I cannot account, and is most probably owing to a difference in the definition of groves at the two settlements; in the papers of the present settlement isolated mango trees in fields of wheat were excluded from the grove area.

· Comparative statement of area covered by groves.

				Settlemen Thor	t by Mr. nton.		it by Mr. rtin.	Present	revision.
Nember.	Parg	ada.		Cultivated.	Not cultivated.	Cultivated.	Not cultivated.	Cultivated.	Not cultivated.
				Acres,	Acres.	Acres.	Acres.	Acres.	Acres.
1	Pür Chapár	•••	•••	49	146	165	201	155	272
2	Muzaffarnagar	•••	•••	228	261	216	604	201	568
3	Bhúkarheri	•••	100	34	110	175	220	200	289
4	Jauli Jánasth	•••	•••	94	877	227	235	191	429
8	Khátauli	•••	•••	188	.438	259	756	188	687
6	Bhumah Sambal	herah	•••	36	159	186	204	154	191
		Total	•••	699	1,491	1,238	2,830	1,089	2,361

In addition to the total area of 3,470 acres, whether cultivated or uncultivated, now under plantations in land liable to assessment, there are not only 362 acres under baghs in revenue-free land, but 1,146 acres of plantation along the main canal, and of less luxuriant wood on the Anupshahr branch, besides road avenues and trees along the distributaries. Throughout the tract, therefore, the area under trees has fully doubled since 1841, and nothing is wanted now to make this tract thoroughly well wooded except permission to occupancy tenants to plant trees in their occupancy holdings.

14. Irrespective of the area covered with plantations, the culturable waste or land fit for cultivation which had never come under the plough, or had not been cultivated during the five years preceding the year of measurement, shows a decrease since 1841 of close upon 10,000 acres, or 35 per cent. In Khátauli there has been no reduction; in Púr Chapár it has been trifling; in Muzasfarnagur, Bhúkarheri, and Jánsath considerable; and in Bhumah Sambalherah enormous, for in this pargana no less than 79 per cent. of the culturable waste of 1841 has now come under a different classification. A small portion of this area may have gone to swell the barren waste but by far the greater portion must have come under the plough. And the advance throughout the tract in this respect is the more remarkable that in every pargana percolation from the canal has ruined much land in the river valleys which 30 years ago was the most productive. Had it not been for the constant encroachments of marsh upon the cultivated area, it is impossible that a pargana like Khátauli should have remained in this respect in statu quo, and it is likely that but for this cause the culturable waste would throughout the tract have been as largely reduced in extent as that of the recent fallow. But even in 1841 there was, except in Bhumah Sambaiherah, no great extent of culturable waste left, and only in that pargana and in Bhukarheri did it exceed 10 per cent. for the assessable area.

Old waste.

Recont fallow.

15. And the extent of recent fallow (in this district land lying uncultivated for three years) was not much greater, notwithstanding the fact that the settlement of 1841 followed so closely after a drought of great severity, which must have been felt all the more that irrigation was so partial and insufficient. The area of recent fallow has now been reduced from 32,397 acres to 5,970, and in no pargana does the proportion to the whole area exceed 4 per cent., and in four it does not exceed 2 per cent. In the instructions for the compilation of the khasra it was ordered that land ordinarily cultivated, but left unsown on account of drought, was to be included in the cultivated area; but the total area of land recorded as cultivated, but not sown, in the year of measurement amounts to only 730 acres, so that the total area of recent fallow amounts to less than 2 per cent. of the assessable area. The extent of this land of course depends to a certain extent upon the season, but so large an area is now protected by the canal, and the light sandy soil which constitutes the bulk of the land not so protected is so easily worked, and is so comparatively productive in seasons of insufficient rain, that it is not likely that the recorded area of recent fallow will be seriously exceeded for any lengthened period.

Little extension of cultivation possible.

16. In this tract, then, of the total assessable area, less than 10 per cent. remains uncultivated, and of this area one-tenth is under regular plantations. So far, therefore, as the area under the plough is concerned, little improvement is to be looked for in this tract, unless a systematic attempt to drain the river valleys shall be made, and until the value of land shall rise considerably it is not likely that drainage operations on a large scale will prove remunerative. In future as in past years it is likely that the so-called barren waste will supply fresh land for the plough, but there is now less practicable land left. Marsh in the river valleys is steadily increasing, and it may be hoped that an increased area will be planted with trees, so that any further important increase to the area under cultivation is not to be looked for, and it is unlikely—indeed impossible—that any future settlement officer will have to record progress in this respect in any way equal to that of the last 30 years.

Area under cultivation.

17. At the dates of the old settlements the cultivated assessable area of the upland portion of the Ganges-Káli Doáb amounted to 221,423 acres. In 1863 the cultivated area stood at 249,966 acres, while it now amounts to 263,997 acres, being an increase over the area of the old settlement, amounting to 42,574 acres, or 19 per cent. But more than half of this increase has been obtained from the recent fallow, a certain portion of which may be attributed to the accidents of season; but even leaving out of consideration the recent fallow brought under cultivation since Mr. Thornton's settlement, there remains a substantial and real increase of the area under cultivation, amounting to 16,147 acres, or nearly 7 per cent. There is a decided increase in every pargana, but it is greatest in those like Bhúkarheri and Bhúmah Sambalherah, in which the extent of recent fallow was at last settlement the greatest.

Extension of irrigation.

18. The details of soils for the old settlement could not be obtained without great trouble and expense, and owing to the destruction of records the statistics would not have been complete; but the subjoined statement shows the improvement in respect of irrigation which has taken place since 1841, and the moderation of the soil entries of the present settlement compared with those of 1863:—

Detail of cultivated area.

					[a]	IRRIGATED.	٥					TOTAL.					DRT.			
Dargana	Settlement	7	Barah.		101	let roueli.		346	Ind raveti.				Other	Total irrigation.			7			Total cultiva-
,		Camal.	Well	Other ces.	Canari.	Well.	Other sour- ces.	Canal.	Well	Other sour- ces.	Canal.	W'ell.			Barab.	raueli.	zna rausli.	Bhár.	Total.	tion.
	PIO	:	i	:	:			:		:	í	i	:		i	:	:	:	37,069	87,188
PUB CHAFÉR	Recent New Difference between	:* ;	:2 :	: "	23,804 12,675	<b>6</b> 8 3	:54	7,246	-2	. %	19,925	<b>2 3 3</b>	. 22	96,852 80,026 + 19.972	:::	1,736	6,291	3,519	14,606 92,134 - 14,945	40,458 42,149 + 5,027
	nd new	i	:	:		:	:	:	•	;	:	i	3	8,138	:	:	i	:	36,735	89,858
MUZAFTARHAGAR	9446	: ° i	: ² :	; <b>*</b>	16,065	2,698 1,893 ::	18 :	9,898	5 - 5	: 2 :	18,956 18 966 :-	2,708 1,622	<b>:</b>	20.662 4 17.629	: : :	6,463	7,645	5,829 11,766	20,25 <b>8</b> 25,77 <b>4</b> 10,951	<b>41,9</b> 17 46,436 + 6,578
Baúzaren:	Old and new. Old	::5 ;	: : 2 :	::°:	<b>24,</b> 618 17,740	: 2 = :	: :2 :	6,099	::":	::"	25,185	: 55 88 :	: : [©] ;	25,349 23,917 + 23,755	; ; ° ;	12,297 2,310	7,658	6,403	34,468 18,844 22,354	84,830 44,193 46,271 +11,441
Јанватн	Old Mad new. Old Recent New Difference fbetween	::=:	::8:	: i [©] ;	16,32	9,678 9,190	: :08 :	149 186	:=4:	: : i	16,881	2,683 2,520	: :8:	6,978 18,664 24,245 + 17,972	: 1 :	16,201	264	13,744	37,467 30,199 26,074 -11,393	48,740 48,763 50,319 +6,579
Ічачіуну	Old Line mew. Old Recent New Difference between	: : ^{co} :	: ;4 :	:: • :	16,525	3,239	: :9g :	1,304	: 18 :	: ; % :	16,632	3,254	: :3 :	10,812 19,886 24,884 + 13,472	::::	14,367	74 6,774	6,037	27,504 20,473 17,939 - 9,565	88,316 40,864 42,423 +3,907
BRÚMAR SAMBAL.	New	::":	::= :	:: 4 :	7,224	289	: :8 :	349 2,676	; ° ;	::":	7,578 9,001	155 252 252 253	7.8	1,200 8,125 9,499 + 8,299	::::	12,944	.:. 5,847 ::	12,980	26,367 26,146 27,100 +743	27,557 84,271 86,599 + 9,042
TOTAL	Old Recent Difference between old and new.	::8:	: :29 :	: ; 29 :	106,884 91,227	7,185	1 12 1	8,936 25,401	: 42 :	::2:	109,820 113,694	7,989	: ;2 :	\$1,638 119,440 122,632 + 100,999	::*:	75,293 97,671	6,721 87,815	48,612	199,790 180,536 141,865 -58,425	221,423 249,966 263,997 442,674

Comparison of recent and new soil entries.

19. The difference between the soil entries of the recent settlement of Mr. Martin and that now concluded are more clearly shown in the following summary:—

				•				
	Pargana a	nd perio	d.		Bárah.	lst rausli.	2nd rausli.	Bhár.
	(1863	•••	***	•••	140	81,521	5,418	3,519
Fúr Chapár	Now	•••	•••	•••	20	14,460	18,572	14,097
	Difference	ce	•••	•••	+20	-17,061	+8,154	+ 10,578
	[1863	***	746	•••	•••	32,704	3,384	5,829
Muzaffarnagar,	<b>∦</b> Now	****	***	•••	91	24,026	10,553	11,766
	Difference	:e	•••	٠.,	+91	-8,678	+7,169	+5,987
	<b>[ 1863</b>	•••	•••	***	•••	37,074	716	6,408
Bhúkarheri	Now	•••	•••	•••	50	20,071	13,767	12,383
	Difference	ce	•••		+50	-17,008	+18,051	+5,980
	<b>[ 1863</b>	•••	***		•••	34,605	414	18,744
Jánsath	Now		•••	•••	311	28,833	7,448	13,717
	Difference	:8	•••	•••	+321	-5,772	+7,034	-27
	<b>[1863</b>	•••	•••	•••		84,181	196	6,037
Kh <b>á</b> tauli	Now	•••	•••	•••	62	28,554	7,251	6,356
	Difference	æ	•••	•••	+62	-5,577	+7,055	+319
	(1863	•••	•••	•••		20,718	573	12,980
Bhúmah Sam- balherah.	Now	•••	•••	•••	118	10,559	8,072	17,556
<b>,</b>	Difference	e	•••	•••	+112	-9,859	+7,499	+4,576
		Total	, 1863	•••		190,753	10,701	43,512
			Now	•••	656	126,803	60,663	<b>78,8</b> 75
			Difference	•••	+65 <b>6</b>	- 63,950	+49,962	+ 27,863

The barah or garden land was not specially entered in the papers of the recent settlement, so that for purposes of comparison it must be included in the better loam. The total of the barah and 1st rausli now recorded is, notwithstanding the increase of the cultivated area by 42,574 acres, less by 63,294 acres than the misan, 1st rausli, and dakar of Mr. Martin's settlement, and amounts to only 48 per cent. instead of 74 per cent. of the cultivated area. The recorded 2nd rausli again now amounts to 49,962 acres more than in 1863, and this soil amounts to 23 instead of 4 per cent. of the area under cultivation. The recorded area of bhur in the same way has risen from 48,512 acres to 75,875 acres, from 19 per cent. to 29 per cent. of the cultivated area.

The increase in the recorded area of the poorer soils is important in all parganas, and is enormous in those farthest north—Púr Chapár, Bhúkarheri, and Muzaffarnagar. In the first named pargana the soil entries were distrusted by Mr. Martin, who, after giving the soil areas of the pargana, wrote: "The above classification is from the amins' papers, and, like most of their measurements, errs in the description of soil. I am sure the bhúr land in this pargana is at least 14 or 15 per cent." The area now recorded exceds 33 per cent., and that of 2nd rausli 32 per cent. In other parganas distrust of the soil entries seems to have been felt and is expressed in the remarks on individual villages, and it is much to be regretted that such acknowledged errors were not rectified in time. Such grave errors in soil classification necessarily affect the calculation of rates and destroy a settlement officer's confidence in their application. And with so thoroughly unsound a groundwork, it is hardly to be wondered at that at the recent settlement the assessing officers should have been afraid to make either serious additions to or reductions of the old demand.

Irrigation entries.

20. This fatal inaccuracy extended to the entries of irrigation, and, notwithstanding the steady increase of irrigation from the canal, the area of recorded irrigation has

fallen off in all the northern parganas, while in the whole tract the increase is a very slight one. In 1841 there were watered in the three northern parganas 3,348 acres, and by far the greater part of this area was contributed by Muzaffarnagar. In 1863, the irrigated area had risen after some eight years of irrigation from the canal to 72,865, while now only 64,604 acres have been recorded irrigated. This falling-off to the extent of 8,261 acres is not real, although on sanitary grounds the canal irrigation of about 1,000 acres has been prohibited in Muzaffarnagar, but is owing to the previous overstatement of irrigation, especially in Púr Chapár—an overstatement which must have been all the more serious at the time, as irrigation has of late years unquestionably extended. And as the great change which has taken place in this tract since 1841 is due, not to the increase of the cultivated area, for which indeed there was little room, but to the opening of the Ganges canal, and to the consequent increase of irrigation and improvement of cultivation, it is necessary to scrutinize the records of irrigation with the greatest care.

21. In 1841 only the south-western portion of the Ganges and Káli Doáb in this district was at all generally irrigated, and a line drawn from the town of Jánsath to that of Muzaffarnagar bounded on the north the tract which was at all effectively secured by wells. In Khátauli and the south of Jánsath and in the south-west corner of Bhúmah masonry wells were fairly numerous and earthen wells were practicable, and in the south of Muzaffarnagar the Sayyids had in the days of their prosperity constructed many masonry wells, which afforded means of irrigation for a considerable proportion of the land in the townships in which they were situated. But to the north and east the sub-soil was sandy and water was from 60 to 110 feet distant from the surface, so that earthen wells were impracticable, while masonry wells were expensive in construction and difficult to work, and in this part of the district irrigation was practically unknown.

Mr. Thornton looked forward to the immense change which the construction of the Ganges canal "would produce in the condition of a sandy and totally unirrigated tract, such as is the great part of the district which will be influenced by the canal." Of the eastern portion of the tract he wrote: "of the space between the sand ridges and the Ganges khádir it may be generally said that it is a poor country. Kacha wells cannot be made in it, and frequently not even masonry ones. Of the latter the cost often exceeds Rs. 2,000 for a well of which the circumference will admit of two pairs of bullocks working at once, and owing to the great depth of the water it is raised for irrigation at a great cost. The scarcity of wells leads to there being very few villages, the cultivators being obliged to locate themselves at such a distance from the fields as necessarily has an injurious effect upon the state of agriculture."

22. This last disadvantage is still felt, especially along the edge of the upland overlooking the Ganges valley, but a glance at the map will show how fully the irrigation of nearly the whole tract has now been provided for. With the exception of the not very extensive tract towards the southern boundary lying on either side of the East Káli river, rajbahás running as a rule at high levels provide for the irrigation in almost every village of as much land as the people can profitably water. And in the northern parganas, which were formerly the driest, irrigation is now most general and easy. In Púr Chapár and Bhúkarheri every village is now irrigable except five, and the only villages in the two parganas irrigable, but not watered from the canal, are two uninhabited isolated townships in the sand waste and two sparsely populated estates near the ravines, which hitherto have been watered only in seasons of great emergency. The fifth estate is so uneven that it is never likely to come under irrigation. In Muzaffarnagar there are to the east of the West Kali only two small villages which do not receive irrigation from the canal. In Khátauli there are five estates along the West Káli and 14 near the East Káli still unwatered by the canal, and in the south of Jánsath there are ten more. Until recently the western villages of Bhúmah Sambalherah constituted the only portion of the district of any size in which

Irrigation in 1841.

Subsequent extension of irrigation.

irrigation was still practically unknown, but now a good distributary traverses this portion of the pargana, and a wholly dry estate will in future be unknown. Throughout the whole tract in which 30 years ago wholly dry villages were the rule, there are now hardly any left: and these are uninhabited estates of poor soil and small area. In the only important clusters of villages into which canal irrigation has not penetrated wells are fairly numerous, and the river valleys afford a considerable extent of land, in which crops can be grown without irrigation in years of drought.

Increase in the irrigated area and statistics of irrigation. 23. The increase in the area under irrigation is very great in every pargana, and as it is the chief ground for a decided enhancement of the land revenue, notwith-standing the reduction in the share of the assets taken by the State, it is well that the irrigation entries should be justified by a reference to the statistics of canal irrigation in recent years. The following statement shows placed side by side the areas recorded as irrigable from the canal and those actually irrigated in recent years:—

Pargana.	Area recorded as canal irrigat- ed.	1863-64.	1864-65.	1865-66.	1866–67.	1867-68.	1868-69.	1 <b>869</b> _70.	1870-71.	Total.	Aver-
	Acres.										1
PUB CHAPAB Assessed Revenue-free,	19,925 983	} 13,288	17,199	11,114	16,780	14,242	24,858	14,009	14,522	125,957	15,7 4
MUZAFFARMA- Assessed Revenue-free.	18,9 <b>6</b> 6 8,630	} 11,767	14,686	13,587	16,887	14,967	28,769	16,204	15,122	126,989	15,874
BRUKARHERI   Assessed   Revenue-free	28,860 1,368	} 11,811	17,730	10,741	17,054	18,799		14,525	15,568	125,798	16,736
JAMSATH { Assessed Revenue-free,	21,520 591	4,594	10,028	10,014	13,726	6,251	23,346	12,124	11,051	91,134	11,893
KRATAULI { Assessed Revenue-free,	20,422 5,366	5,104	19,735	12,471	12,171	11,338	23,627	15,767	15,436	115,649	14,464
BRUMAN SAM- { Assessed BALHERAH.   Revenue-free,	9,001 15	2,994	4,335	4,258	5,069	8,024	7,488	8,496	4,097	<b>34,</b> 711	4,338
Total Assessed Revenue-free,	113,694 11,958	} 48,958	83,713	62,185	81,687	63,621	128,208	76,125	75,796	620,238	77,530
GRAND TOTAL	125,647										

Irrigation affected by

24. Of the five years which immediately preceded the completion of the new khasras, 1868-69 was a year of drought and exceptional irrigation, and even the irrigation of 1869-70 was influenced by the drought; 1866-67 was a year of full average irrigation, while in 1867-68 canal irrigation of the cold-weather crops was reduced to a minimum. Whether, owing to the fact that settlement operations were in progress at the time or not, the irrigation of 1863-64 was so exceptional that there has never since been any approach to its figures. Except in years of drought the area irrigated in the kharif is fairly constant and does not in this tract fall generally much below 30,000 acres, whereas in 1863-64 it stood at 18,349, and was least general precisely in those parganas in which there was at the recent settlement the most reason to suspect fraud. In 1867-68 the irrigation of cold-weather crops fell to 28,373 acres in a season of constant showers, but such restricted irrigation is altogether exceptional, and the average of the eight years is 47,410 acres, and excluding 1863-64 and 1868-69, it is 42,836 acres.

Assumption of a fair standard of irrigation.

25. In this way 72,000 acres is a safe numerical average, and it may be assumed that whenever water is required over 80,000 acres may be irrigated, as was the case in 1864-65 and 1866-67. The actual irrigation from the canal has only once equalled the recorded area of irrigation, but it is considered that the average irrigation is more than sufficient to justify the areas recorded as ordinarily irrigable. For, especially in the case of the poorer and less highly cultivated land it is found that the same fields are not irrigated every year, and even the very best land is not ordinarily irrigated when there is grown on it maize, jowar, urd, the fodder crops, or the coarser rice. Sandy loam indeed is irrigated in average seasons only when it bears cane, while the irrigation of all land in the cold weather depends in a great measure upon the time at which the rain falls, as well as upon the quantity. And it has been found that irrigation entries are absolutely safe when the area recorded irrigable exceeds the irrigation of an ordinary year by one-half in the case of good land, and by about 100 per cent, in the case of bad. In other words, good irrigable land is unirrigated

once in every three years, and bad land every alternate year. On this assumption the average canal irrigation in each pargana required would be as follows:—

	Canal irrigated lst rausi and reduction of one-third.	Canal irrigated 2nd rausli and reduc- tion of one- half.	Total area re- corded irrigable from canal.	Ordinary irrigation required for irri- gable area.	Average canal irrigation of eight years.	Average canal irrigation of six years, excluding 1863-64 and 1868-69.	Irrigation of fair average year, 1869-70.
Púr Chapár }	13,857 	7,551 -1= 8,775	20,908	12,681	14 744	14.600	14.000
Musaffarnagar,	19,112 -1= 6,371	3,776 3,484 —===================================	<b>22,</b> 596	12,001	15,745	14,686	14,009
(	12,741 18,805 -1= 6,268	1,742 6,423 -1= 3,212	 25,228	14,483	15,674	15,242	16,204
Bhúkarheri {	12,537	3,211 2,194	 22,111	15,748	15,725	14,903	14,525
Jánsath {	13,278	1,097	32,111 	14,375	11,392	10,532	12,124
Khátauli	24,132 -} = 8,044 16,088	1,656 -1= 828 828	25,788	16,916	14,456	14,486	15,767
Bhúmah Sambal-	6,335 	2,681 -1= 1,340	 9 <u>,</u> 016	10,316	19,500	19,900	10,191
heran (	4,218	1,841	•••	5,564	4,389	4,046	3,496
Total }		23,989 -1=11,994	125,647		•		
(	67,772	11,995	•••	79,767	77,580	73,846	76,125

General test of accuracy of entries.

In this way the irrigation entries in Pur Chapar and Muzaffarnagar may be held to be amply warranted, and those in Bhúkarheri and Khátauli to be sufficiently supported by the statistics of the Irrigation Department, and it is only in Jánsath and in Bhumah Sambalherah that explanation is required. To take the latter pargana first, the area annually irrigated is reduced by the circumstance that rice-and especially the finer rice-is little grown in this pargana, so that the constant kharif irrigation is chiefly that of sugarcane. This being the case, the irrigable area is sufficiently protected with a smaller annual supply of water, in the same way that 2nd rausli, with little or no rice, is sufficiently protected by an annual irrigation of half its area. In Jansath, on the other hand, the disparity between the area of annual irrigation and that recorded irrigable is owing to the circumstance that in not a few villages with a large proportion of good land, but with insufficient population, a considerable extent of land has come under irrigation, but is watered at longer intervals than is usual elsewhere. It was impossible to record land which had been irrigated three and four times from the canal as otherwise than irrigable, but the fact that much land in certain villages was less highly cultivated than the average, and that it was irrigated at longer intervals, not only influenced the classification of estates, but made it necessary to assess a portion of the pargana at rates considerably below those fixed for the circles in which they were placed. In this pargana too there is much lowlying land, in which irrigation of the cold-weather crops is little required, except in seasons of very deficient rainfall.

27. But of course no such general justification as that which has now been attempted of the entries of soil and irrigation was trusted to in order to ensure correctness. Not only were the soil and irrigation entries tested with the greatest care,

Detailed tests

but both landlords and tenants were encouraged to satisfy themselves of the correctness or otherwise of the khasras in this respect, and every applicant was allowed, on the deposit of one anna per field, to have tested by a reference to the canal khasras of past years the correctness of irrigation entries. Several thousand entries were in this way tested at the cost of the people, and very many more were tested in the same way without charge when there was good ground for the belief that the objections of the people were well founded. The fact that many objections were made by the landlords to the omission to record as irrigated fields which they asserted to be capable of irrigation is an additional proof that all classes were anxious for a settlement of their claims, and that there was comparatively little attempt at concealment of assets during settlement.

Extension of cultivation and irrigation.

28. To state the change in the condition of the tract concisely, the new settlement records show an increase of the cultivated and irrigated areas as follows:—

			Cultivat	ED AREA.			IRRIGAT	ED AREA.	•
Pargan	<b>18.</b>	Old.	New.	Increase.	Per cent.	Old.	New.	Increase.	Per cent.
		Acres	Acres.	Acres.		Acres.	Acres.	Acres.	
Púr Chapár	•••	37,192	42,149	5,027	14	53	20,025	19,972	87,683
		39,858	46,436	6,578	16	8,183	20,662	17,529	559
Bhúkarheri .	404	34,880	46,271	11,441	33	162	23,917	23,755	14,663
Jánsath .	•••	48,740	50,319	6,579	15	6,273	24,245	17,972	286
Khatauli .		38,316	42,223	3,907	10	10,812	24,284	13,472	125
Bhúmah Sambalhe	erah	27,557	36,599	9,042	33	1,200	9,499	8,299	692
Т	otal	221,423	263,997	42,574	19	21,633	192,632	100,999	467

Even if the whole increase to the cultivated area be not altogether real, a substantial addition of 7 per cent. may safely be assumed, and of the reality and importance of the extension of irrigation there can be no question.

Effect of canal irrigation in dry and in partially watered tracts. 29. And where the increase has been least in the parganas formerly more or less protected by wells, the effect which the substitution of canal for well irrigation has had in improving the standard of cultivation tends to make the change wrought in the condition of parganas previously irrigated as great as in those in which irrigation was formerly unknown. For in the previously irrigated parganas there has not only been an increase in the area under irrigation, but the general substitution of flush canal irrigation for that from wells has set free an amount of labour equivalent to a substantial addition to the population and a large accession to the number of cattle employed in agriculture.

This will be more clearly shown by definite examples, and for this purpose the pargana of Khátauli is the best specimen of a pargana which was fairly and generally protected by wells, while parganas Pur Chapar and Bhukarheri fitly represent a tract in which irrigation was before the opening of the canal practically unknown. In the last named parganas, the irrigated area has increased from 215 acres in 1841 to 43,942 acres in 1872-74, the difference being one of 43,727 acres; while in Khátauli the irrigated area now stands at 24,284 acres instead of 10,812 acres, being an increase of only 125 per cent. In the latter pargana, however, the opening of the canal has not only led to extended irrigation, but it has led to the substitution of canal irrigation almost invariably flush for the more laborious watering from wells in 6,950 acres. This area is irrigable not annually irrigated, and it may be assumed that the average number of waterings given to irrigable land in this district is about two; so that the labour of men and cattle required to irrigate 6,950 acres twice has been saved by the substitution of flush irrigation from the canal for that from wells. Now the average labour estimated to be requisite for the irrigation on an acre of land from a well with water 20 to 30 feet from the surface is that of 12 persons and 12 bullocks for one day, while 4 men and 16 bullocks can plough three acres of land in a day. labour alone, therefore, which has been saved is sufficient for the ploughing of 31,234

acres once. Now the area under sugarcane has increased by about 2,000 acres; and if it be assumed, as is probably fair, that sugarcane cultivation involves eight ploughings in excess of what would be required for another crop, the bullock ploughing power fer 16,000 acres would be required for this purpose. And for pressing the cane the estimated bullock labour is 24 bullocks per acre, so that the bullock labour required for this purpose would be equivalent to that required for the ploughing of 3,000 acres; so that, even making allowance for contingencies, such as carting the cane to the mill and such like, the bullock labour saved by the canal is sufficient for all the work connected with the increased cane cultivation and for ploughing 10,000 acres besides. Now the increase to the cultivated area in Khatauli amounts to 3,907 acres, much of it poor soil and not ploughed so frequently as better land bearing better crops. may therefore with safety be assumed that the bullock labour saved by the substitution of canal irrigation flush for that from wells has been sufficient to provide for the cultivation of the increased area of sugarcane and for the ploughing of the greater part of the area of increased cultivation. The manual labour saved is greatly in excess of that required for the additional ploughing necessary for the improved and extended cultivation now carried on.

The above calculations are only rough and approximate. I have not thought it necessary to enquire whether all the labour saved has been saved at a time when it can be all utilized for the purposes to which I have assumed that it has been devoted, or whether some of it is not required for other purposes; it is all available in a tract like this for improved cultivation. In parganas like Pur Chapar and Bhukarheri, although the percentage of increase in the area under cane is very great, in the case of the latter almost as great as in Khatauli, yet in parganas of almost identical area the increased acreage of the cane crop is only one half as great as that in Khátauli; and it seems unquestionable that the more largely increased area, and the more generally maintained quality of the cane crop in that pargana, may be attributed to the labour set free by the canal, without the aid of which even the steadily increasing population and wealth of Khátauli would have been insufficient for the improved cultivation which has now been reached in this pargana. If, therefore. there be reason to regret that canal water has not been more widely distributed and more persistently carried into the drier tracts, it cannot at the same time be questioned that the substitution of canal for well irrigation has in certain tracts accelerated improvement and rendered possible a standard of cultivation which could not otherwise have been reached for many years to come. Unfortunately, however, the advantage, such as it is, is but small in comparison with the numerous disadvantages which the present haphazard system of distribution entails. But these will have to be discussed later, and this digression has been made here merely in order to show that in parganas in which the increase in irrigation has been least the progress of the country has not been less than elsewhere.

31. A comparison of the crop areas now recorded with those entered at Mr. Thornton's settlement is no less indicative of progress than the statistics of irrigation. And as it is important that whatever proof is available should be adduced in support of the crop areas now recorded, I devote a few lines to show that the areas now entered are, as far as the most important entries go, in all probability tolerably correct. The only crops regarding which it can be asserted that where canal irrigation alone is available it is certain to be used are sugarcane and munji or the finer rice. In most parganas there is here and there some sugarcane on unirrigated land, and in Bhumah Sambalherah, until after the close of the settlement operations, the cultivation of sugarcane on unirrigated land was still general. In the northern parganas, Pur Chapar and Bhukarheri, in this way, correct entries of the cane crop ought slightly to exceed the recorded areas of sugarcane irrigation. In Muzaffarnagar, the area under sugarcane should exceed that of cane land irrigated from the canal by not less than 257 acres grown in villages beyond the reach of canal irrigation; in Khatauli and

Improved standard of cultivation in Khátanki.

Comparison of statistics of cane and musji cultivation. Jánsath the excess of the cane crop over the area watered by the canal should be still greater; and in Bhúmah Sambalherah, where sugarcane was largely grown on unirrigated land, greatest of all.

With reference to rice there is less certainty. Nearly all munji is watered, but a good deal of the coarser rice is occasionally irrigated, and no distinction is made between the different varieties of rice in the records of the Canal Department. The area of rice therefore watered from the canal must ordinarily be in excess of the recorded area of the munji crop, and in all parganas except Khatauli and Bhumah Sambalherah the margin is amply sufficent; and in these two parganas a certain extent of munji is grown in the river valleys, where the crop is cultivated with tolerable success even without irrigation. I think, therefore, that the short comparative statement of crop and canal-irrigated areas of sugarcane and the finer rice tends to confirm the accuracy in certain particulars of the detailed crop statement which follows, and the almost proved accuracy of the recorded area under sugarcane in Pur Chapár, Muzaffarnagar, and Bhúkarheri forms a strong ground for hoping that, taken as a whole, the crop entries are fairly accurate.

Comparative statement of areas of sugarcans and munji recorded in the settlement papers and those irrigated by the canal in the year of survey.

Pargans.		Recorded area of sugar- cane.	Area of sugar- cane irrigated from the canal.	Recorded area of munji.	Area of rice irrigated from canal.
Par Chapar { Assessed Revenue-free	999	3,193 72	3,114	{ 3,034 185	} 3,797
Total	•••	2,264	2,114	3,219	8,737
Muzaffarmagar { Assessed Revenue-free	•••	2,634 538	} 2,787	{ 1,805 324	} 8,511
Total	•••	8,167	2,787	2,119	3,511
Bhúkarheri { Assessed Revenue-free	•••	2,549 109	3,596	{ 2,667 74	} 8,563
Total	•••	2,658	2,596	2,741	3,563
Jánsath Assessed Revenue-free	***	3,104 95	2,658	{ 1,263 47	3,006
Total	••• 1	3,199	<b>2,6</b> 58	1,810	2,006
Khátauli { Assessed Revenue-free	•••	3,81 <b>4</b> 949	3,961	1,928 420	} 1,601
Total	•••	4,768	3,961	1,648	1,601
Bhúma Sambal- Assessed Revenue-free	***	2,469 •••	} 1,526	{ 386 	324
Total	•••	2,469	1,526	386	394
GRAND TOTAL { Assessed Revenue-free	***	16,76 <b>2</b> 1,758	} 15,592	{ 10,383 1,050	} 14,749
Total	•••	18,520	15,592	11,488	14,742

^{32.} The examination of the final results with the aid of independent tests is the more necessary, because the papers of Mr. Martin's settlement tend to indicate

Comparison of general

a falling-off in the area under sugarcane which I could hardly think was real. An examination of the irrigation statistics now convinces me that it was not, and that the recorded areas of the settlement of 1863 were almost certainly exaggerated. It is almost inconceivable that the area of the sugarcane crop in Pur Chapar for example should have been so much in excess of the area irrigated by the canal, and the statement of cane and rice areas watered by the canal given in appendix V. goes far, I think, to prove that the crop statistics of the new settlement papers are more likely to be right than those compiled by my predecessors. I am inclined to think that the sugarcane area may have been in some cases exaggerated, owing to a mistake which rendered necessary the recompilation of the crop statistics in one pargana during the present settlement operations. When I began to inspect Bhumah Sambalherah, I found that both the cane which was standing or had just been cut, as well as that which had been sown or was about to be sown, had been entered, so that an area nearly double that of the cane crop of the year had been recorded.

At all events I do not think that it is necessary farther to discuss the crop statistics of the recent settlement, and I relegate to appendix VI. those of the settlement of 1863, and confine myself to the consideration of the difference between the crop statistics of 1841, as far as they exist, with those of the present settlement 30 years later. In the abstract statement given below, the less important crops, full details regarding which will be found in the appendix, have been lumped together. The areas of kharif and rabi crops, of sugarcane, cotton, rice, wheat, and barley in 1841 have been obtained from the percentages given in the appendix to Mr. Thornton's printed report. They are necessarily only approximate, for the pargana boundaries have not remained unchanged, but it is likely that they rather overstate than understate the areas under the best crops 30 years ago. For Bhúmah Sambalherah no crop statistics of the old settlement have been obtained.

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	Cotton.	3 1,114 4 1,783	2 797 3 1,474	2 697 1,734	875 875 34 1,659	3 1,149 3\$ 1,594	84, 4,632 34, 34, 34, 34, 34, 34, 34, 34, 34, 34,
	Свле.	4 3 1,485 1,114 54 4 2,192 1,783	1,594 52 2,634	1,893 697 54 4 2,549 1,734	4 1,760 6 8,104	5 3 1,916 1,149 9 32 3,814 1,594	4 8,138 4,638 6 34 14,293 8,194 64 2,469 1,197 64 84
	Settlement.	Mr. Thornton's settlement, Present revision,	Mr. Thernton's settlement.  Present revision.	Mr. Thornton's { settlement, { Present revision, {	Mr. Thornton's ; settlement. c	Mr. Thornton's settlement	Mr. Thornton's settlement.  Present revision, Mr. Thornton's settlement.  Present revision, Mr. Thornton's settlement.
	Name of pargana.	Púr Chapár,	Muzaffards- gar.	Bhúkarheri,	4 Jauli Ján- sath,	Khátauli	Total of five parganas. Bhúmah Sam- baiberah. Grand Total,
-	Namber.	-	91	<b>6</b>	4	<b>10</b>	9 B B

83. The most important crops, whether considered in their intrinsic value or as indicating increased care in cultivation, are sugarcane, cotton, and munji, or the finer rice, and in the rabi, wheat. It has been assumed that munji was not grown in this tract in 1841, and this assumption is practically correct, although here and there there may have been a little of the crop in the river valleys. In this way, the increase in the rice area is not more important than the improvement in the quantity of the crop. The areas and percentages of increase in the five parganas for the crops of which the statistics are available are as follows:—

			l e		KHARIF.			Rabi.	
	Pargana.		Sugar- cane.	Cotton.	Rice.	Total.	Wheat.	Barley.	Total.
Par Chapar	{ Area Per cer		707 49	619 55	2,479 167	3,809	<b>—60</b>	1,669	1,218
Muzaffarnagar	Area		1,040 65	677 85	2,247 187	5,083	1,255	1,5 <b>3</b> 7 385	1,495 -08
Bhűkarheri	Area Per cer		1,156 88	1,037 149	1,973 113	7,298 37	<b>8,</b> 330 48	2, <b>3</b> 35 67	4,143 28
Jauli Jánsath	Area Per cer	it	1,354 77	784 89	465 21	<b>2,017</b>	<b>5,029</b> 58	<b>-217</b> 6	4,562 25
Khátauli	{ Area Per cen		1,898 91	445 39	1,987 172	3,486 16	2,863 25	—110 29	421 •035
Total	{ Per cen		6,155 75	3,562 77	9,151 116	21,693 20	12,417 <b>24</b>	5,214 58	11,639

The most important crop of all, and that which is the best criterion of improved agriculture, is unquestionably sugarcane. The increase in the area of this crop is very large and is greatest in Khátauli, and after that pargana in Jauli Jánsath, Bhúkarheri, Muzaffarnagar, and Púr Chapár successively. It might be expected that sugarcane cultivation would show the largest extension in parganas in which population had increased most rapidly, and this is the case except with reference to Khátauli, in which pargana population has increased by only '11, compared with '15 in Bhúkarheri and '18 in Jauli Jánsath. But Khátauli has gained much more by the liberation of labour owing to the introduction of canal irrigation than any other pargana, the area in which the canal irrigation has superseded that from wells being 6,950 acres in Khátauli to 3,448 in Jauli Jánsath and 1,437 in Bhúkarheri. It may very safely be assumed, therefore, that the available agricultural labour has increased more rapidly in Khátauli than in any other pargana, so that in this way increased sugar cultivation has followed the increase in the available labour of the population.

With regard to cotton the increase is less easily explained. Pargana Bhúkarheri, which has made much progress owing to the industry and increased numbers of its inhabitants, has surpassed all its neighbours in the rapid extension of its cotton cultivation, while Khátauli stands last on the list.

The cultivation of rice has made most progress in Púr Chapár and Muzaffar-nagar; after them comes Khátauli, in which before the opening of the canal there was comparatively little rice, while in this respect Jauli Jánsath is far behind. Of the correctness of the entries in this last pargana I do not feel altogether certain, and rice is the crop regarding which errors are most likely to be made, for much of the land under this crop is ploughed up early and sown with gram or other crops.

The percentage of kharif crops has changed but little, but has risen slightly in every pargana except Jauli Jánsath. Improved cultivation tends, by extending the acreage under cane and rice, to increase the area devoted to kharif crops; and the more waste land is ploughed up, the more land has to be devoted to fodder crops, which are grown during the rains.

So much of the best land indeed is now devoted to the cultivation of rain crops that the area under wheat has been comparatively little extended. In the sandy pargana of Pur Chapar indeed, so much additional land has been devoted to sugarcane, rice, and probably to fodder crops, that there has been no good land to spare for wheat, and the area of the wheat crop is somewhat less than it was. The area under barley is naturally greater than it was, as so much of the increased cultivation has been obtained from the poorer soils.

Increase in the area of the most important crops.

Sugarcane.

Cotton.

Rice.

Wh eat and barley.

Rise in prices.

34. But not only has the area under cultivation been extended, and the more valuable crops have been substituted for the less valuable, but the average prices of agricultural produce have risen very considerably. There is no question regarding which there is greater difference of opinion than that of the rise in prices, and it is necessary that the grounds upon which an opinion on the subject has been framed should be stated in detail. I have therefore given in appendix VII. a statement showing the harvest prices at Jalálábád, the chief grain mart in the district. Jalálábád is a town in pargana Thánah Bháwan lying to the north of Shámli, and it is the only mart in the district from which I was able to procure thoroughly trustworthy statistics for a long period. The prices given by Mr. Thornton as the average of 20 years preceding his settlement were obtained by striking the average of all the Thánas in the district, so that it is more satisfactory to compare the prices for different periods obtained from a single mart. Those ascertained by Mr. Thornton for the earlier period and those ascertained for the later period on the eastern side of the district are, however, given for comparison:—

	М	ùn	ji.	D	hái	ı.	м	ak	1.	Jo	ws	ır.	В	ijra	٠.	Ū	rd.		M	oth		T	a.	c	Un ear ott	led.		Hr		₩	he	st.	Gr	AM).	B	arie	7:
	Md	L s	. с.	M	d. 8	. c.	Md	l. s.	C.	Md	L s.	. c.	Md	l s.	c.	Md	l. <b>s.</b>	0.	Md	. в.	o.	Md.	. <b>s.</b> c	. M	d. :	. c.	M	1. s	c.	Md	L B.	C.	₩d.	s.c	M	d.	_
Mr. Thornton's																	5 1						•••		•••			•••					1				
1821–40. Jalálábád price	lı	8	84	ı	14	1	1	6	7	1	5	13	0	85	4	0 9	9	11	0	81	o	0 19	9 4	10	20	0	0	21	1	0	37	0	1	6 1	al 1	. 11	10
list, 1821-40. 1841-60	١, ،	· ·		١,	17	10	١,	•0	20	_	00	4		01	10	١, ,	35	٦		04	ا	0 10		1.	16	- 1	ł					١.			1		
1841-70	0 8	16	8	ī	4	12	0	35	0	0	34	5	0	28	0	ō 8	10	0	ŏ				14	He	14	7	0	16	13	Ò	31	12	0 1	18		1 11 1 6	1 4
1851-70 <b>Kháta</b> uli, 1841-					3 39					0				•••			18 1 18 1		!	•••	1		•••		13 13			17					0		9	i	2
70.	10.5		15	ľ	39	٥	ľ	34	v	ľ	50	13		•••		'	<i>2</i> 0 1	٦		•••	Į	•	•••	Ι,	15	•	ľ	10	10	ľ	29	5		B1 1	٩.	1 1	. 8

Percentage of rise.

From these figures it would appear that at Jalálábád the price of wheat was higher in the 20 years ending with 1870 than it was in the period ending with 1840 by 16 per cent., that of gram by 18, barley 7, jowár 28½, urd 28½, maki 30, múnji 21½, dhán 18¼, gur 15¼, and cotton 34.

The prices of the various markets generally confirm one another; and where the statistics for Jalálábád are complete, the difference between the rates quoted for that market and for Khátauli are not greater than might have been expected. Jalálábád, situated in the north-west corner of the district, at some distance from the railway, and with no metalled roads, has fewer facilities for exportation than the eastern parganas. The difference is specially great in the case of the rabi grains, for as the rains follow the harvest so immediately, there is little opportunity of transferring to distant markets a portion of the crop. It is least in the price of cotton, which nowadays is moved chiefly by the old means of conveyance; and in that of gúr, which is still largely sent away by carts to the western markets, and for the export of this article the situation of Jalálábád is sufficiently favourable.

Improvement in communications.

- The improvement in communications has been no less important than in other respects. A district situated between the Ganges and Jumna had always considerable natural advantages in the matter of communications; but the rivers were only useful for the export of gram and wheat in one direction, they did nothing at all for the sugar trade. At the time of Mr. Thornton's settlement Muzaffarnagar was connected with neighbouring districts by unmetalled roads enly. Since then the metalled road from Meerut through Roorkee to Dehra has been made; a navigable canal has been constructed which, though comparatively little used in ordinary seasons, is a resource of very considerable importance when droughts occur in the eastern districts; and finally in 1868, the Sindh, Panjáb, and Delhi Railway was opened through the district. This line at once connected the district with the railway system of India, and year by year fresh markets have been rendered available for the produce of the district by the steady progress of the railway system in the Panjáb and by the construction of the State line into Rájpútána. Beneficial as all these improvements have been to the district as a whole, they have been especially valuable in the Ganges canal tract, through which all these new lines of communication pass.
- 36. Unfortunately, while there is probably no tract in British India for the communications of which more has been done by the State, there are probably few in

District roads.

which improvement has been less due to local effort. Up to the date of the completion of the new settlement there was no completed metalled road, except the one which had been handed over to the district authorities by the Public Works Department. No tahsil was connected with Muzaffarnagar or with the railway by a metalled road; the important communications with the districts lying to the east and west were practicable only in dry weather, and were rendered difficult even by the cold-weather rain. The unmetalled district roads were generally fair; but this was more owing to the nature of the soil than to any labour or expense incurred in their repair. But if in Muzaffarnagar little has been done for trade by the improvement of communications, much had been done before the mutiny for the comfort of the people, and the long avenues of trees radiating from Muzaffarnagar bear testimony to the energy in this respect of successive district officers. Mr. Astell was the last, and the most unwearied and probably the most skilful arboriculturist, and is credited not only with the long lines of trees which the district owes to him, but also with the less important avenues which must have been planted by his predecessors. But it is only natural that the last and most indefatigable planter of trees should be the best remembered, and since Mr. Astell's days (he left the district in 1852) tree-planting along the roads has become an almost forgotten art.

37. The present population of this portion of the district has already been discussed, and here I need only show the progress of the tract in this respect. The population at the time of Mr. Thornton's settlement is not known, but the statistics of 1853, 1865, and 1872 are all available and are all fairly trustworthy. Unfortunately the detailed figures for 1853 have been lost, and only the pargana totals are known. In this way the comparison in the case of the parganas with a considerable extent of area in the Ganges valley can only be general, except with reference to the two last enumerations. Reserving details not absolutely necessary, I give in the following abstract the totals for the various parganas, which are arranged separately, according as the figures are affected or not by the inclusion of villages in the valley of the Ganges:—

Rate of Kute of population agricultural Total population population population er square Total agriculper scre of mile of culti-Year. per square per acre of Pargana. population tural cultivated mile of vated and cultivated population and cultur-able area. culturable total area and cultur able area. area. 16,844 13,223 81,659 352 1853 1865 438 88,26 679 **32**,835 18,278 Púr Chapár 1872 ·278 13,251 443 369 32,804 -690 Upland Valley 27 34,420 86,959 84,024 19.202 . 35 1 284 306 1853 1865 ·549 349 214 14.541 280 -544 13,494 Upland *** Valley 2,985 89,57**6** ... Bhákarheri 15,812 258 1879 368 36,680 14,020 432 Upland 2,896 34,509 1,7**9**2 19,**6**93 Valley . 484 27**8** ·805 1853 34,452 18 656 328 276 -208 1865 Upland Valley 29,384 5,068 10,236 3,420 Bhumah Sambal-... **36,**0**0**0 14,547 hersh. 1873 **294 ... .800 416 510 31,628 4,872 11,618 Upland 2,929 19,148 16,368 Valley 302 ... 427 . :336 45,642 49,548 48,653 513 1865 533 522 -274 *830 Musaffarnagar ... 15,721 1872 507 **•2**59 798 1853 31,271 19.911 377 226 •877 592 34,543 37,097 14.777 356 1865 897 621 Janli Jánsath 382 1872 15,981 •285 44,851 26,932 510 457 ·486 800 19,137 18,410 490 249 45.648 530 1885 -632 Khátauli 49,256 578 507 *335 895 1872 1868 121,730 221,852 416 250 .357 650 284,376 424 92,408 870 261 662 1865 Upland Valley 926,873 87,165 ••• 5,238 98,899 8,008 Total of six par-242,417 1879 415 ·284 89,151 482 Upland alley 7,299 4,748

Increase of population.

Increase examined n

38. In parganas Bhúkarheri and Bhúmah Sambalheran the whole of the increase in the population of the upland cannot be clearly traced, but it is almost certain that the population of the valley has been falling off, and since 1872 the irrigation from this tract has become much more serious than before.

In all parganas there has been an increase in the population since 1853. It has been least of all in Púr Chapár, in which pargana, as also in Muzaffarnagar, there has been a falling-off since 1865.

Pur Chapar and Bhukarheri are very similar parganas: in both there is an enormous percentage of poor soil; both have been changed since 1853 from entirely dry to fully irrigated tracts. In the former the increase to the population has been trifling, in the latter it has been very great. This is to a certain extent explained by the fact that even now, after the accession to the number of the people, the population of Bhukarheri is still not quite so dense as it is in Pur Chapar. In other words, Bhukarheri is only, now that irrigation is general, able to attract and support the population which its neighbour owned by proprietary communities supported before the construction of the canal.

Similarly in Jauli Jánsath the large increase to the population has only brought the standard of population up to the average of the tract. In Bhúmah Sambalherah the gradual depopulation of the valley villages has made the increase in the population of the whole pargana less important than in all likelihood it would otherwise have been, and the progress made in the upland between 1865 and 1872 is very considerable.

In Muzaffarnagar, and to a still greater extent in Khátauli, a fairly sufficient population has increased considerably; but even in Khátauli, when the superiority of the soil and cultivation are considered, the population is practically no greater in comparison with the resources of the pargana than elsewhere. Emigration from the more thickly inhabited portions of the Meerut district has to some extent contributed to the increase of the population of Jauli Jánsath and Khátauli.

Recent falling-off in two pargauss. 39. In most parganas the increase in the population has continued up to 1872; indeed, in most parganas the progress made during the seven years between 1865 and 1872 has been greater than in the earlier and longer period. In two parganas only—Muzaffarnagar and Púr Chapár—has population increased in the earlier period and fallen off again in the later. In Muzaffarnagar the decrease is more than accounted for by the falling-off in the population of the dry villages situated on the west bank of the Káli river, which may safely be attributed to the drought, which induced emigration to the insufficiently inhabited villages watered by the canal. But a considerable portion of the falling-off in the population of the pargana as a whole was probably accidental, for during the period in question the population of the town of Muzaffarnagar fell from 11,314 in 1865 to 10,636 in 1872, being a decrease of 678, or 6 per cent. This falling-off, or at least the greater part of it, may safely be attributed to the completion of the railway and the departure of the workmen who were temporarily attracted to the town.

In Pur Chapar the decrease is far more than accounted for by the falling-off in the population of seven rice villages, in which the decrease amounts to 1,084, being nearly 10 per cent. In these villages the mortality during the recent fever epidemic was very great, and was caused, it is to be feared, in some measure by the excessive area of rice cultivation.

The statistics of the tract when examined in detail show clearly enough that there is no necessary connection between canal irrigation and a decreasing population; on the contrary, population has increased in a marked manner in this tract only in those estates which are sufficiently watered by the canal, and has fallen off only in those irrigated villages which have been oversaturated or in which drainage has been constructed or neglected.

While the total population of the six parganas has increased between 1853 and 1872 by 20,565, or nearly 10 per cent., the agricultural population would appear to have fallen off by 27,831, or 23 per cent. But this is clearly owing to a difference of classification, the day labouring class having been considered agricultural in 1853 and non agricultural in 1872. The addition of three-fourths of the Chamárs, the great day labourer caste, to the number now recorded agricultural would bring this class of the population up to the figure recorded in 1853.

40. During the 30 years therefore that had elapsed between the settlement of Mr. Thornton and that now concluded, the following improvements had taken place:—

Progress during 3 years summarized.

- (1) The area under cultivation had been increased 19 per cent.
- (2) The area under irrigation had increased 466 per cent.
- (3) The prices of agricultural produce had risen by about one-fifth.
- (4) A metalled road, a navigable canal, and finally a railway, had been opened through the tract.
- (5) Population had increased by 10 per cent.
- (6) Owing to the substitution of canal for well irrigation in 12,695 acres much agricultural labour had been saved.
- 41. Some of the results of all these changes have been already stated—the improvement in cultivation, the extended area of the better crops, and the increased productiveness of the soil and the greater certainty of a harvest. The effect of all the changes that have taken place upon the letting value of the land have still to be considered. The adjustment of rents with reference to the recent settlement was generally completed by 1862-63, and the recorded rent-roll of the Ganges canal upland amounted in the year 1863-64 to Rs. 6,67,422. The actual rent-roll of the year of Mr. Thornton's settlement (1841) cannot be ascertained, but it will be safe to assume for the whole tract that the assessment was about two-thirds of the assets. On this assumption the rent-roll of 30 years ago would amount to Rs. 4,85,943, the assessment being Rs. 3,23,962.7-6: so that, taking the year of adjusted rent-rolls as indicating fairly the rental of the tract, there had been an increase in the assets amounting to Rs. 1,81,479, or 37 per cent. During the interval of 20 years there had been, according to the papers of the recent settlement, an increase of cultivation to the extent of 28,543 acres, and in the irrigated area of 97,807 acres. The average value of the increased cultivation could hardly have been less than Rs. 2 per acre, and the increased value of the land that had come under irrigation could not have been on the average less than the same sum. At these rates the addition to the rent-roll would have been Rs. 2,52,700, whereas it was only Rs. 1,81,479. And no allowance had been made for the rise in prices, the distinct addition to the population and labour of the pargana, and the consequent increased competition for land and the gradual tendency towards a rise in rents. And over and above this, the rates of Mr. Thornton's settlement were unquestionably low, and it is almost certain that the annual rental of the tract was even in 1841 greater than the assessment took for granted; and some addition would have to be made to the assumed assets of Mr. Thornton's settlement in order to make the rental a sufficient one. In this way the increase assumed by the rent-roll of 1863-64 was altogether inadequate.
- 42. And this rent-roll was not even the normal rental of the village papers. Commutation of rent in kind into money rents had been frequent, and the new assessments in this way very generally guided the new rent-rolls, and the assessments had, as has already been shown, been based upon the rates assumed by Mr. Thornton. It is hardly to be wondered, therefore, that the rent-rolls at once began to rise. The real value of the land began to assert itself, and within three years the rental had been enhanced by more than 17 per cent.; and before the inquiries with reference to permanent settlement had been completed, the rental had risen permanently to a standard nearly one-third in excess of that of Mr. Martin's settlement. And there is

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Effect of progress on the assets of the tract.

Rise of rent-rolls after Settlement of 1863. no reason to believe that in the interval the productiveness of the tract had greatly changed. Progress had continued, but had not suddenly begun; and the rental of the year in 1872-73, which may be roundly stated at Rs. 8,67,000, cannot be held to indicate that the value of land had increased enormously in ten years; it merely helps to prove that the rent-roll of Mr. Martin's settlement was inadequate.

The rates of Mr. Thornton's settlement, more especially in the southern parganas, were so low that it is hardly likely that the assumed rental of 1841 is adequate, and it is probably safe to enhance the Rs. 4,85,943 of assumed rental to Rs. 5,50,000. Until the time of Mr. Martin's settlements rents were in the great majority of cases taken in kind and by crop rates. Where rents were taken in kind, the rise in prices operated at once and the cultivation of the better crops paying crop rates was encouraged. The rise in prices, therefore, up to the end of 1860, amounting to about 20 per cent., may fairly be held to have added 10 per cent. to the rental. Besides this, there have to be added the rental of 28,543 acres increased cultivation and of 97,807 acres increased irrigation. The calculation would then stand—

		Rs.
Assumed rent-roll in 1841	•••	5,50,000
Increase of 10 per cent. owing to rise in prices	•••	55,000
Rental of 28,543 acres of increased cultivation	•••	5 <b>7,086</b>
Increased rental of 97,807 acres on account of irrigation	•••	1,95,614
Total	•••	8,57,700

The rent-rolls of recent years closely approximate to this sum, and in the year of drought far exceeded it. As kind rents and crop rates are charged in the village papers for the land cultivated by proprietors, and as recent high prices have largely increased the money value of such rents, no allowance for sir and other cultivation of proprietors is required, and the recorded rentals may be accepted as additional proof of the large excess of the existing assets of the tract over those assumed in 1841.

## Rent-roll statement.

Number,	Pargana.	1271 faell (1865-64.)	1272 fasii (1864-66.)	1278 fasii (1865-66.)	1274 faeli (1866-67.)	1276 faeli (1867-68.)	Total of 6 years.	Average of 5 years.	1276 fasli (1868-69.)	1277 fasii (1869-70.)	1278 fasii (1870-71.)	1279 fasli (1871-72.)	1280 facili (1872.)	Total of 5 years.	Average of 5 years.	Total of 10 years.	Average
		Ba.	Rs.	Rs,	Rs.	Ra.	Rs.	Ra.	Rs.	Rs.	Ra.	Rs.	Bs.	Ra.	Rs.	Ra	4
1	Pûr Chapár	1,14,878	1,22,957	1,35,771	1,87,754	1,44,284	6,75, <b>63</b> 9	1,35,128	1,78,706	1,89,170	1,51,185	1,49,286	1,37,104	8,05,451	1,61,090	14,81,699	14
3	Muzaffarnagar,	1,88,466	1,40,608	1,48,713	1,49,292	1,42,706	7,14,780	1,42,956	1,40,196	1,56,671	1,58,000	1,59,519	1,47,632	<b>7,61,2</b> 18	1,52,244	14,75, <b>590</b>	14
8	Bhúkarheri	1,05,694	1,20,481	1,23,646	1,25,629	1,29,602	6,05,009	1,31,000	1,81,155	1,48,231	1 <b>,36,5</b> 18	1,36,596	1,49,478	7,01,978	1,40,396	13,04,000	Ų
4	Jánsath	1,18,728	1,81,622	1,32,629	1,84,689	1,87,121	6,54,784	1,30,947	1,80,806	1,70,509	1,67,874	1,61,316	1,62,619	8,42,716	1,68,548	14,97,450	ч
5	Khatauli	1,24,964	1,84,725	1,87,288	1,39,526	1,45,141	6,81, <b>589</b>	1,86,818	1,57,884	1,76,379	1,71,114	1,79,073	1,79,334	8,57,734	1,51,647	15,30,336	¥
٠	Bhúmah Sam- balberah.	69,702	71,278	75,599	75,981	79,700	<b>3,72,2</b> 10	74,440	76,341	91,183	<b>82,46</b> 8	83,279	90,996	4,34,270	94,954	7,96,480	1
																	-
	Total	6,67,422	7,21,616	7,58,591	7,82,771	7,78,554	87,03,954	7,40,791	8 <b>,05,04</b> 0	9,32,436	8,68,550	8,62,069	8,67,163	43,93,367	8,78,474	10,70,00	

## CHAPTER IV.

Inspection; proposed rates; assessment and financial results.

By the time that inspection had begun, the people at large had become fully alive to the importance to themselves of accurate soil entries, and the tenants evinced the utmost interest in settlement operations. The landlords too, after their recent experiences, were aware of the danger of scheming for low assessments, which might be made the basis of insufficient rent-rolls. In this way the settlement officer had at inspection the benefit of the assistance of at least one of the parties interested, and in most cases the entries regarding soil and irrigation became the subject of dispute between the landlord and his tenants. Every effort was made to secure moderation in both respects, and ordinarily inspection involved alterations distinctly in favour of the people. The tendency of subordinates to show their zeal for the interests of Government, and to shield themselves from all possible charges of collusion with the people, is nowhere more likely to lead to an overstatement of advantages than in a tract such as this, in which unquestionable sand passes gradually into good loam, and in which there is often as much room for honest doubt with reference to the soil entries as in regard to those of irrigation. For the correctness of the soil entries the only effective guarantee is efficient supervision and thorough testing, and every effort was made at inspection to make the soil entries accurate and safe.

It is matter for regret that the simple device first introduced by Mr. Elliott in Fatehgarh, of systematically marking the different patches of soil on the map, was not made use of. Subsequent experience has convinced me of the great utility to the inspecting officer of this simple improvement, and it greatly facilitates the work of district officials who may later have to use the settlement records. But if the permanent demarcation of soil patches was not thought of, every care was taken to secure correct soil entries in the khasra, and I hope that experience may prove these entries to have been fairly accurate.

2. With reference to irrigation, the statistics of the Canal Department furnished information which was constantly used to check the entries of the khasra, and no field was ordinarily recorded as irrigated which had not been watered in ordinary seasons as well as during years of drought. This caution may have led to the exemption of fields which might fairly have been assessed at irrigated rates; but in a district watered from the canal, it is impossible, unless in exceptional circumstances, to assess with confidence on any basis other than the experience of past years. Land may be capable of irrigation, but unless there is labour and manure sufficient for its careful cultivation, its irrigation will be only occasional, and it would be impossible to levy irrigated rates from land watered at the considerable intervals which happily intervene between seasons of extreme drought.

In villages watered from wells money rents were fortunately general, and, having been recently fixed or enhanced, indicated fairly the limits of irrigation. An area of twenty acres was held to be as much as could ordinarily be secured by a well working a single run.

3. The correction of the soil entries was rendered extremely difficult by the progressive condition of the tract, and it is likely that, before another settlement is entered upon, many difficulties in this respect will be removed. But at present the areas of irrigation and of the more careful cultivation are by no means fixed, and much land is in a transition state between the unproductiveness of its natural quality and the improved condition to which under careful cultivation it will one day no doubt attain. This circumstance renders moderation in soil entries and in the rates assumed, more especially for the poorer soils, absolutely necessary, and it is in this respect that the data of the present revision will soonest become obsolete, and the most distinct improvement may be looked for during the period of settlement.

Inspection and co

Irrigation entries

Progressive condition of the tract.

When canal irrigation is first extended to a village, the fields which come first under irrigation are those in the better land which have previously been carefully cultivated. Gradually the area of carefully cultivated land is extended, and in villages in which the quantity of naturally fertile soil is limited, the poorer lands come under the better crops and are irrigated and manured. Eventually, after years of careful tilth, after repeated manuring, such land becomes good and productive; but at first, when the limits of the more careful cultivation are not fixed, and the more laborious farming is tentative rather than permanent, there is some difficulty in classifying it with accuracy as well as safety. The work of inspection was in this way difficult as well as laborious, and the final correction of the irrigation entries involved much investigation in the office as well as observation in the field.

assification of estates.

4. The next step was to classify estates. Canal irrigation had done much to equalize villages, but the numbers of the resident population, the caste of the cultivators, and the circumstances of the people were still almost as important as of old. Assessment by circles was no new thing in this district, and my immediate predecessors had implicitly followed in this respect the example of Mr. Thornton. And I think that the system is justified on other grounds than because it is an old one. There is no question that even now, when facilities for irrigation are, comparatively speaking, so generally equal, the differences in the value of land in various villages are still very great, and in my opinion the comparison of similar estates is an important help towards fairness and equality in assessment. It is of course still more unquestionable that a slavish devotion to the circle system of assessment might lead to great inequality and injustice, for many an estate which on general grounds is placed in one circle has certain soils similar to those of other circles. This is more especially the case with reference to otherwise first class estates, which extend in one direction into the middle of an unfertile sand plain, and may in this way contain some of the best land as well as some of the worst in the pargana. To assess the bad land at the rates of the best circle would be as fatal to the people as the assessment of the good land at the rates of the circle into which the worst land alone would fall would be injurious to Government. But it is no objection to the classification of estates that the system is not infallible, and must be used with judgment as a help, rather than blindly as a guide to fair and accurate assessments.

amber of circles.

5. In each pargana three circles were formed, containing the best, average, and inferior estates. As has already been remarked, settlement by parganas had its advantages under the peculiar circumstances of this revision, but at a future settlement it will probably be better to settle by tahsils; and in this tract two sets of three circles, or perhaps even one, will be sufficient instead of the six sets of circles which have now been adopted.

stement of areas and

6. The details regarding each circle are given in the pargana reports, and it. will be sufficient to place on record here the cultivated soil areas of the various circles, the rates which were ascertained, and those which were assumed.

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	Parganas	Circle.	Area in circle.	Area of ascertained rental.	Percentage to area.	Ascertained rental.				Ascertained rate.			Assumed rate.		Area in cirole.	Ares of ascertained rental.	Percentage to area.	Ascertsined rental.			Ascertained rate.			Assumed rate.	
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Tabell.	Pargana.	Circle.	Ares in circle.	Area of ascertained rental.	Percentage to area	Ascertained rental.			Ascertained rate.			Assumed rate.	Area in olrcle.	Area of ascertained rental.	Percentage to area.	Ascertained rental.			Ascertained rate.		Assumed rate.
	Pür Chapár {	I. II.	2,249 8,956 1,076	548 1,478 596	·24 ·87 ·55	Ra. 2,307 5,367 2,203	2. p. 7 0 6 0 4 8	4	3 10	p. 4 0	4	19	856	440	•••	Rs. 1,136 1,509 1,802	8	0	3 <b>3</b> 3 6	2 10	8 (
Mezaptarnegar,	Muzaffar- nagar.	1. 11. 111.	7,881 959 1,140 909	2,617 449 560 463	•36 •47 •49 •51	9,878 2,112 1,799 1,804	12 .5	4 8	12 11 1	5 5 1	4 3 1	-	1,736 334 1,586 4,553	254 570	-78	3,950 786 1,744 5,270	4	6 8	3 15 3 1 8 0 8 3	- 6 11	- 4
	Bhúkar- heri.	I. II. III.	1,778 3,167 1,164	505 1,296 194		5,147 1,408 5,078 551	6 10 0 0 1 0 4 4	2 2	18 14 18	1 ì · · · · · · · · · · · · · · · · · ·	4		6,463 922 610 778	231 101	·37 	7,801 371 304 383	8	3	1 10 3 10 2 4	10	2 14
	Jauli Jánsath.	I. II. III.	6,109 626 1,583 289	1.995 344 726 65	-54		15 0 12 6	4 8	7	7	4	<b>12</b> (	2,810 328 5,162 1,647	186 5,170	1	1,059 641 17,630 1,344	6	0	2 2 3 7 8 6 2 11	2 6	3 (
Уста Уснасти.	Khátauli, {	I. II. III.	545 688 249	271 250 225 	•90	1,685 1,018 628	5 0 7 0 6 6	6 4 2	0 1 18	6 2	4 1 4 3 1	8 (12 (	2,792	634 1,182 604	100 -42 -26	3,804 1,698	5 8 2	4 0	2 6 3 3 2 13	1 6	3 H
	Bhúmah   Sambal- { herah. }	I. II. III.	872 1,112 741	384 622 242	·55	1,765	8 6	4 8	9	8	4 1	14 (19 )	1	948	-59		6 12 0	9	3 5 3 6 2 8	2 6	: 4
			2,725 			4,882 		-	18	11	_	•••	4,19	2,183	_			8	: :	10	4

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Area in circle.	Ares of ascertained rental.	Percentage to area.	Ascertained rental.	Ascertained rate.	Assumed rate,	Area in circle.	Ares of secentained rental.	Percentage to area.	Ascortained rental.	Ascertained rate.	Assumed rate.
2,110 2,165 2,016	891 883 411	•42 •41 •20	Rs. a. p 2,003 8 2 2,187 8 0 791 11 0	2 6 9	Rs. a. p. 2 4 0 1 14 0 1 8 0	5,268	2,419 2,203 1,489	·47 ·41	Rs. a. p  8,414 8 0  2,938 12 U  2 137 15 0		Rs. a p. 1 6 0 1 2 0 1 0 6
6,391	2,175 	·84 -62	4,89 i 5 0		2 4 0	14,097 ——— 1,665	6,061	·48	8,49: 8 0	1 6 5	1 8 0
1,724 6,873	507 1,852	•29 •37	792 18 8		1 11 0	•,	1,561 2,012	·24 ·12	1,483 10 1 2,144 2 3	0 14 8	1 2 0
9,166	2,718 ————————————————————————————————————	•29 •25	4,696 7 10 689 1 3		2 0 0	1,852	8,958 	•16	423 14 8		1 5 0
2,879	698 828	.9	522 14	1 9 5	1 5 0	1,902	2,345	-11	3,027 9 10 288 0 2 	1 0 8	0 15 6
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5,774	1,111		 			6,856					
1,581 1,925 3,041	706 889 694	-46	1,850 7	9 2 4 9 0 3 1 4 0 2 0 10	200	8,742	8,621	•41		1 3 8	
5,847 	2,289		4,880 10	9 2 2 1	1,1	1 ⁷ ,556		-	7,787 8 0		***

Increasing prevalence of money rents.

7. Up to the close of the period of Mr. Thornton's settlement money rents were exceptional, and on this side of the district rents were taken in kind or by valuation of the crop, and by crop rates for sugarcane, cotton, and chari, and less invariably for Indian-corn.

At Mr. Martin's settlement money rents were very generally fixed in commutation, but as was proved during the investigation with reference to permanent settlement, these commuted rents were fixed on a wrong system by the Settlement Deputy Collector, who not unnaturally held that as the assessment had been fixed on the theory of half assets, a suitable rent-roll would be obtained by doubling the assessment. Rentrates fixed on such a principle could not be looked upon as very valuable indications of the value of land, and have not been included in the preceding statement; they were as a rule distinctly below those ascertained and assumed for the better soila, and were, when the assessment of the several parganas was taken up, applied to 57,955 acres throughout the tract.

The existing rates upon which the assumed rent-rates were based were those which had been fixed by agreement in commutation or after suits for enhancement since settlement. As many of these rates had been fixed by the assessing officer himself, they were liable to objections on that ground, and the fact that in many cases their fitness had not been proved by sufficient experience rendered the basis of assessment less satisfactory than it would otherwise have been. For, as far as the area of ascertained rents was concerned, the basis was fairly sufficient, more especially in the case of the better soils, whether irrigated or dry.

Rates tested by ex-

- I was a good deal influenced in the fixation of the assumed rates by the exceptionally intimate acquaintance with, and practical experience of the tract, which I had gained during two inspections; the first with a view to permanent settlement. and the second prior to re-assessment. Later I had an excellent opportunity of correcting my estimates, when I received charge of three properties under the Court of Wards, The management of estates or portions of estates brought me face to face with the difficulties of the rent-roll, which is the real test of all rates. A very serious mistake in assessment may pass comparatively unnoticed, but the margin left in favour of the tenant is necessarily much smaller, and any mistake in the direction of an exaggerated estimate of the value of land is quickly exposed by the outcries of the people and by the difficulty in collection. And the position of a settlement officer as manager of Court of Wards' estates is one peculiarly favourable for a fair judgment of the capabilities of the He finds himself the guardian of the interests of members of a class which was almost necessarily in this district regarded from a revenue point of view with a certain amount of suspicion and distrust. At the same time he feels himself very directly responsible for the welfare of the cultivating classes who are committed to his care, and direct contact with whom can hardly fail to be useful. The agents and friends of the families are also of service; they are naturally anxious for a full rent-roll, and are at the same time afraid lest an excessive one should lead to an excessive jama. the collection of rents brings home to the assessor of revenue the difficulties which even in a prosperous tract beset the landlord, the fatal facility with which tenants fall into arrears and embarrassment, the frequent difficulty of collecting rents punctually even from solvent tenants, and furnishes profitable experience to the settlement officer and gives him increased confidence in the rates he may assume if they stand the practical test of experience. The enhancement was ordinarily so great that the chief danger was that of going too high; and rates which were acquiesced in by persistent and independent cultivators, and were proved to be moderate by the high prices obtained for land even before assessment, when the rates assumed, and not the jamas eventually fixed, were known, could be accepted with confidence.
- Assumed rates, generally lower than those ascertained.
- 9. A detailed comparison of the rates ascertained with those assumed, shows that in the case of all soils except irrigated 2nd rausli the assumed rates were ordinarily less than those ascertained, and in the case of this soil there were sufficient reasons for

considerable divergence in the rates. In one circle or pargana 2nd rausli had been ordinarily classed with 1st rausli, and, as in the 1st circle of Khatauli, the rent-rate was abnormally high; in others again the land had come recently under irrigation, and the dry rates which had been maintained brought down the average rent-rate for this soil.

Except with reference to this soil the assumed rates were sufficiently supported in all parganas except Khátauli and Jauli Jánsath, and in respect of them the adjacent parganas of Meerut furnished information which it would have been impossible to neglect.

10. The subjoined statement shows the extent to which in each circle the revenue actually assessed differed from that indicated by the assumed rates. In the three parganas adjoining Meerut, in which the assumed rates were the highest, and more especially in the two parganas first assessed, those of Khátauli and Jauli Jánsath, the enhancement involved was so great that I was afraid to take the whole of it, more especially as at that time progressive assessments were forbidden. In this way, in the parganas in which the assumed rates were highest and were most likely to be excessive, the assessments were fixed at 9 per cent. below the amount indicated by the rates.

In parganas subsequently settled the rates assumed were moderate and the assessments more nearly followed the rates.

Pargana.	Circle.	Jama by assumed rates.	Jama actually assessed.	Former jama.	Percentage of difference be- tween assumed rate jama and former jama.	difference between jame
	1	Rs. a. p.	Rs. a. p 30,900 0 0	Rs. s. p. 27,800 0 0	5-17	11:15
Púr Chapár	II.	29,082 9 0	80,160 0 0	24,514 0 0	18-63	28.08
	L III.	7,566 14 8	8,490 0 0	6,950 0 0	8-86	22-16
		65,888 0 8	69,550 0 0	59, <b>364</b> 9 Q	1-118	17:35
. (	1.	31,657 2 0	80,250 0 0	25,810 0 0	32-95	27.04
Musastardagar	II.	24,192 12 0	25,070 0 0	22,804 18 0	8.46	12 40
•	ш	24,061 13 6	26,840 9 0	25,569 0 0	6.56	5-0
		79,911 10 6	82,160 0 0	71,688 18 0	11-47	14-61
	I.	83,075 12 0	32,200 0 0	23,524 0 0	40.60	36.88
Bhûkarheri	11.	38,801 8 9	84,521 0 0	26,152 0 0	29.25	89-0
	ш	7,315 3 6	7,590 0 0	6,270 0 0	16.66	21-05
•		74,192 4 8	74,811 0 0	55,946 0 0	82-61	82:84
	I.	18,445 8 0	16,500 0 0	11,210 0 0	64-54	47-19
Janu Jánsath	II.	63,879 2 6 9,524 2 6	55,400 0 0 9.210 0 0	89,838 0 0	57.83	89.07
•	III.	9,524 2 4	9,210 0 0	7,447 0 0	27.89	23.67
		90,848 18 0	81,110 0 0	58,495 0 0	55-80	38-66
(	I.	88,680 6 0	34,291 0 0	23,660 2 6	63:27	44 90
Khátauli	II.	40,785 6 0 16,832 14 0	38,000 0 0 15.815 0 0	28,487 0 0	41.17	81.55
	1"	10,032 14 0	15,815 0 0	18,282 0 0	28.72	1970
		96,248 10 0	88,106 0 0	65,829 2 6	46-20	83-84
Bhumah Sambal-	L.	20,025 4 6	19,050 0 0	14,975 0 0	83.70	27-21
herah.	II.	18,875 <b>7</b> 6	17,846 0 0 8,960 0 0	:8,396 0 0	40-90	88-21
•	, 311L		8,960 0 0	7,320 0 0	22:44	92-40
		47,622 14 9	45,856 0 0	85,691 6 0	88'42	28:45
Total of six parganas		454,719 4 9	4,41,098 0 0	8,46,908 15 6	81-08	27.15

Divergence between the result of assumed rates and assessments.

Reasons for difference

11. The assessments of Khátauli and Jánsath would seem to involve the admission that the rates assumed for the first settled parganas were too high; but it is quite possible that rates may be theoretically justifiable, and that they may be levied in precisely similar villages, and yet that the enhancement which they involve is so enormous that it may not be desirable to impose it all at once in a tract in which for thirty years rents had ruled abnormally low. And it is an additional evil of inadequate assessments for a long term of years, that even when the period comes to an end, there are difficulties in the way of securing to the State the whole of the additional revenue of which it has so long been deprived. For any sacrifice of revenue which has been made in these two parganas I am the more distinctly responsible that, with reference to pargana Jánsath, my proposals were objected to as being too moderate. But the enhancement taken was so great that I could not with safety have taken more; and disproportionate as my assessments are to those indicated by the assumed rates, they are still so high that I feel more anxious regarding the success of the new settlement in these two parganas than with reference to the remainder of the tract.

In addition to the assumed rates, the circle rates on cultivation and on assessable land were used for purposes of comparison, and in average villages were frequently of considerable use; but variations from the average, whether in the proportion of irrigated land or in the area of sand, rendered all calculations by average rates advantageous, more because they called attention to extreme variations than ebcause they could be trusted as guides in assessment.

Aids to assessment,

12. But in addition to these calculations I had before me at assessment all the various information contained in the pargana books, the comparative area statement of the old, recent, and new settlements, the records of soils and crops and of former assessments, an abstract of canal irrigation statistics for the three years previous to 1868-69 for the year of drought and for the subsequent year of measurement. There were also statistics of population, of the number of wells, sugar-mills, ploughs, and cattle, and statements showing the classes which occupied the land, the rates which they paid formerly and at the present day, and the rent-rolls of the villages as recorded for twelve years by the village patwari. And the calculations had already involved a certain amount of consideration, for until the villages were arranged in circles no calculations were possible.

Distribution.

13. The distribution of the assessment was in many cases quite as difficult a matter as the fixation of the demand for the whole estate. Ordinarily the division of the land among the various pattis was fair; but canal irrigation had necessarily caused inequalities, by enormously improving without any corresponding expenditure on the part of the zemindars certain portions of an estate, and in many cases by injuring the lower lands which had formerly been so valuable. Where deterioration was likely to be permanent it was right that full consideration should be given to the altered condition of the village; but where the change in the relative value of portions of an estate was due to irrigation, and there was still land capable of irrigation left, it was generally agreed that distribution on the present soil areas alone was undesirable, and the people readily assented to a compromise. A mean between the jama by soil rates and that by the malguzári rate was the compromise ordinarily agreed to, but the cultivated rate and the proportion of the old jama to the new for the whole estate were frequently brought in to prevent exclusive attention being paid to existing circumstances, or to moderate the suddenness of enhancement in particular pattis.

In effecting these arrangements little help could be obtained from the people themselves; wherever there was any serious difficulty, the weaker or the more distressed party insisted on an order by the assessing officer or by the Deputy Collector, and the most important cases were decided only after renewed inspection and prolonged investigation. All this took time, but the work was one of primary importance, and where the Government demand had been seriously enhanced, it was all the more necessary that the revenue should be fairly distributed. In some cases the difficulty of

equitable distribution had been increased if not entirely caused by unfair partitions, and some partitions were so palpably bad as to be almost necessarily fraudulent; but on the whole recent partitions stood the test well, and there is no more searching test of their fairness, than the contested distribution of a new revenue demand based on new, and it may be hoped corrected, soil entries.

14. The appended statement shows the method in which the demand was finally distributed.

Statement showing method of distribution.

Statement showing modes of distribution of jamas in the six parganas of the Muzaffarnagar district the settlement of which has been revised.

	How distributed.	Púr Chapér,	Muzaffarqagar,	Bhûkarheri.	Jánsath.	Khátaulí.	Phomah Sambalherah.	Total.
1. 2. 3. 4. 5. 6. 7. 8. 9.	By biawa shares By shares (dheris) Upon number of ploughs By average rate on total area By average rate on assessable area By average rate on cultivation By soil rates By fixing lump sums on each patti or thok with retarence to soil and areas. By average between soil rates and average rate on assessable area. Enhancement proportionately distributed By fixing lump sums on each muhalla by consent of proprietors.	11 1 6 11 12 1	26	18 2 5 4 4	18 2 15 2	24 1  13 8 13 2 1	12  2  9 1	109 1 13 45 13 60 10
12.	Total  Ze mindari villages or the like owned by one individual or more than one, but of the same family, in which jams had not to be distributed.  Total	47 12 59	56 17 78	35 19 54	50 21 	66 38	29 30 	283 137 420

It will be seen that in 109 estates the demand was distributed by biswa shares, in one by other shares, in one on ploughs; so that in two-fifths of the total number of estates in which distribution was required the possession was allowed to be in just proportion to the nominal share.

In 71 cases in which it was necessary to look to the area in possession the people were satisfied with average rates of incidence calculated on the total assessable or cultivated area; in 70 the demand was distributed with reference to the soils of the assessable or of the cultivated area; while in the remaining 31 the demand was distributed by agreement, by striking the average between the demand by the rate on the assessable area and that by soil rates, or with more or less reference to the former demand.

In some cases the rate on the assessable area was brought in to modify the demand based upon soil areas which were liable to change, but proportionate enhancement was in most, if not in all, cases simply a device to moderate what would otherwise have been extreme changes. It is no doubt illogical to be partly guided by a previous distribution which has been rejected as unfair, but in distribution as in assessment it is sometimes necessary to stop short of logical conclusions and to rest satisfied with an arrangement somewhat different from that which abstract justice demands.

In not a few instances it was found that great relief and a substantial instalment of justice could be given with the full approval of all parties, while the complete

rectification of old inequalities would have plunged villages in discord. In such cases a discretion was exercised, and just as in certain villages previously too lightly assessed it is not always possible to enhance the demand so as to secure the full claims of the State, so in estates in which the demand has long been very unequally distributed it may be inexpedient to restore too suddenly the balance which has long been lost.

Such cases were not very numerous; in all of them the old inequalities were largely redressed, and I trust that at next settlement there may be no necessity for the adoption of illogical methods of distribution, which can be justified only by practical considerations, the full weight of which is hardly appreciated until the circumstances of individual villages are examined.

That the distribution of the demand was fairly successful may be assumed from the absence of appeals, for while there were five appeals against assessments, all of which were dismissed, there were only two objections with reference to distribution; of these one referred to a mistake by which a graveyard had been included in the assessable area, while the other also had reference to an error which had been overlooked, so that neither involved the principle of distribution which had been adopted.

Revenue instalments.

15. Every endeavour was made, by studying the convenience of the people in the fixation of the instalments of revenue, to render the heavy enhancement as little irksome as possible. The statement given below shows the instalments fixed by Mr. Martin, and the alterations made with the full concurrence of the people.

Kharif instalments.

The abolition of the 15th November instalment was cordially welcomed, for although more especially in rice villages it was possible to pay a considerable amount of revenue from the season's crop, it was clearly inconvenient to do so at a time when the agricultural community has to incur a heavy expenditure for the rabi sowings, and it was moreover desirable that at such a busy time of the year the collection of the revenue should not be allowed to interfere with agricultural operations. Half, therefore, of the total kharif instalment was postponed to the 15th December and half to the 15th February. The uniformity of the arrangements proposed, and the unanimity of the people with respect to them, was neither desired nor expected, and I did not at first feel certain that the instalments which the people asked for were altogether expedient; but I had been convinced, by investigation with reference to villages which did not come under revision of settlement, that in prosperous estates facility of account is looked upon as a consideration of equal importance to any other: and when the people were almost unanimous, I thought it needless to interfere. Similarly, I permitted the fixation of the February instalment even where the cane crop was a small one. The people wished it, and the crop was likely, even in the poorest villages, gradually to extend its area: and in one way it gives an obvious advantage to the poorer landlords and cultivators, that when the rain crop fails and revenue is not suspended, less interest has to be paid on a loan taken in February than on one negotiated in December. It is unquestionable that the February instalment, as a whole, is out of all proportion small when compared with the value of the cane crop of the district; but when new cattle are required, the want is most urgently felt at the cane-pressing, cane-sowing season, and can be most conveniently supplied at this time.

Another argument for not reducing still further the earlier kharff instalment and increasing that to be paid from the cane crop, even if this could have been done without inconvenience to Government, was consideration for the poorer landlords, to whom the postponement of all important income from their land until February would have been a serious blow. It is, however, likely that as time goes on it will be practicable to reduce the December instalment; but in the meantime any further change in this direction was asked for only in one village, the Jat cultivators of which applied for the abolition of the old November and December instalments, and the collection of half the demand from the cane crop and of the remaining half from the spring harvest.

The instalments to be paid from the rabi crops have been raised in a greater ratio than the revenue, in order to make up for the lessened proportion of the kharif instalments, but the amount has been restricted to half the revenue.

Rabi instalments.

I do not look upon these arrangements as final; the proportion of the area under spring crops does not appear likely to increase, but as there is no season of the year when a cultivator's receipts are so large and his immediate expenditure is so small, it may be found advisable to increase still farther the amount of revenue paid in summer, and to reduce, and in some cases to abolish, the autumn instalment that has been left. For the present, however, as great changes have been made, as the people desired, and in respect to instalments, as to other matters, I have allowed practical considerations to moderate the advance towards theoretical perfection. And it is hoped that the chief points to be studied in the fixation of revenue instalments have been sufficiently kept in view. These are—

Chief points studied.

- (1) That the instalments should be fixed so that the crop may be harvested before the tenant has to pay his rent.
- (2) That the instalments may be easily payable from the crops which are harvested about the time when the instalment falls due.
- , (3) That the instalments should be fixed so as not to take too much from the cultivator at a time of great agricultural expenditure.

Comparative Statement of Revenue Instalments.

-										
Number.	Pargana,	Circle.	Mr. Martin's assessments.	Enhancements.	Reductions,	Net enhancement.	Percentage of enhancement.	Number of estates in which enhancement,	Number of estates in which reduction,	Number of estates in which neither enhancement nor reduction.
			Ra.	Rs.	Rs.	Rs.	Rs.	Rs.		
1	Par Chapir , {	I. II. IU.	27,800 24,514 6,950	8,100 5,646 1,710	 170	3,10 ) 5,646 1,540	31 28 22	7 20 16	  4	₁
		Total	59,264	10,456	170	10,286	17	51	4	2
3	Musaffarmagar {	I. II. III.	28 810 22,305 25,569	6,440 8,825 2,818	560 1,542	6,440 2,765 1,271	27 12 4	15 18 16	 4 11	1 4 8
		Total	71,684	12,578	2,102	10,476	14	44	15	8
8	Búhlsacheri {	I. II. 111.	23,524 26,152 6,270	8,676 8,610 1,370	 241 50	8,676 8 <b>,369</b> 1,390	87 83 91	12 36 11	••• •• ••	*** 1 1
-		Total	55,946	18,656	291	18,865	88	49	8	3
4	Jauli Jánasth {	I. II. III.	11,910 <b>89,838</b> 7,447	5.290 15 562 1,775	12	5,290 15,562 1,763	47 39 24	10 45 10		1 4
		Total	59,495	22,627	12	22,615	38	65	1	8
	(	ı.	23,660	10 631		10,681	44	22		1
	Khitani }	II. III.	28,887 13,282	9,118 2,828	295	9,1+3	31 19	46 21	₅	
		Total	65,829	22,572	295	29,277	33	89	5	8
6	Bhúmah Sambalhe- rah {	I. II. III.	14,975 18,896 7,320	4,075 4,465 1,640	15	4,075 4,450 1,640	27 33 22	17 26 13		₁
•		Total	35,691	10,180	,15	10,165	28	56	2	1
	Total of six parganas,	•••	8,46,909	97,069	2,885	94,184	27	854	30	91

Although the equalisation of the demand has been kept in view and reductions have been given in 30 estates, enhancements have been large and general and the increase in the demand is a very heavy one of Rs. 94,184, or 27 per cent. over the demand of Mr. Martin's settlement, and of Rs. 1,18,695, or 36 per cent. over that of Mr. Thornton. But this increase, heavy as it is, is justified by the change in the circumstances of the tract which has taken place since 1841, and which have been described so fully in this report.

Progressive assessments which were prohibited when settlement work began, but were again allowed towards its close, were fixed in only two estates of Pur Chapar and in one of Bhukarheri, in which enhancement was considerable. In this way the

ultimate demand was not reached until 1876-77, and in the intervening years the loss to Government was as follows:—

					Pár (	haj	pár.	Bhúl	arl	eri.	Total.
1873-74	•••		•••	•••	Rs. 886		p. u	Rs 9 <b>2</b> 5	<b>a</b> . 0		Rs. a, p.
1874-75	•••	•••	•••	***	232	8	0	163	8	0	695 0 0
1875-76	•••	•••	•••	•••	78	12	0		•••		78 12 0
							_			-	
					697	8	0	1,387	8	0	2,085 0 0

With these exceptions, the new demand was collected from the following dates:-

Jauli Jánsath	•••	•••		***	•••	•••	1872-78
Khátaulı	•••	•••	•••	•••	•••	•••	1872-73
Muzaffarnagar	•••	•••	•••	***	•••	•••	1873-74
Bhúmah Sambali	ierah	•••	•••	•••	•••	•••	1878-74

Working of the revised assessments.

17. The impression which a new settlement makes upon the people, and through them upon the officials who are responsible for the collection of the new demand, depends a good deal upon the seasons which accompany the change: and in this respect the new settlement has been only moderately fortunate. The year 1872-73, during which the enhanced demand in Khátauli and Jánsath was for 'the first time collected, was generally unfavourable. In 1873-74 this tract seems to have fared better than other portions of the district and the division, in which the rice is described as having suffered, cotton being poor and the sugarcane crop very moderate; but still the year was only a middling one, even when a good rabi is taken into account. Prices, however, ruled high, and sugar was largely exported to the Panjáb. Next year the crops were again only middling and prices were not above the average. In 1875-76 the rice crop on this side of the district was a fine one; the rabi also was fair, and prices being low, much grain which was soon to be in great demand was stored, but the subsequent profits did not affect the great bulk of the agricultural population.

The kharif of 1876-77 was a good one, but there was excessive rain in the cold weather, and the benefit derived by high light soils did not compensate for the injury done to the crops in the level country irrigated by the canal. The harvest prices were not above the average, and the subsequent rise, owing to the rapid export eastwards, came too late to benefit the bulk of the agricultural population. The famine in Southern India, and the great impulse to the grain trade given by it, proved of great service to the town of Muzaffarnagar, which has now obtained a position in the grain trade which it is not likely to lose. Traders from various marts at a distance from the railway have settled in the town, and Muzaffarnagar began to thrive on the decay of the other markets. The new railway into Rajputana had opened up a new market for the produce of the district, and one which bids fair to be of great value to a sugar and rice-producing country.

The season of 1877-78 was preceded, as it was accompanied, by calamities. The heavy rain in the early summer had injured the straw on the threshing-floors before it could be protected, and many cattle died from being fed on rotting fodder, which was all that the drought left for them. The drought restricted production to irrigated lands, but the loss involved was to some extent made up for by the prices obtained for the cane crop which survived the drought and the unusual demand for fodder. Sugar sold at Rs. 6-12-0 per maund and gur at Rs. 5-10-0, and in fairly irrigated villages these prices went far to make up for the loss on the dry lands; but still the year was one of hardship, and the rabi, though sown over a large area and sold at famine prices, hardly restored the balance of the year. Gram was very extensively sown after kharif, but the crop was much injured by excessive rain; the wheat crop was fortunately a fair one.

New demand easily collected. 18. Under these varying and not altogether favourable circumstances the revenue has been collected without difficulty and the great bulk of the rent has been collected within the year, and the balances do not appear to have increased

since the new rent-rolls were drawn up. As is usual in the first few years after enhanced assessments, there was a certain amount of friction between zemindars and cultivators; suits for arrears increased and notices of ejectment were numerous, but the latter are no indication of heavy assessments and rents, but on the contrary are prompted in a great measure by the value of the land and of all permanent rights connected with it. Influenced in some measure, perhaps, by the increase in the number of suits, Mr. Sladen, upon whom the collections during the first few years devolved, was "disposed to think that the jamas were rather severe," but subsequent correspondence indicates that a different impression now prevails in the district.

19. And if the verdict of the officers who have had to collect the new demand has been on the whole favourable to its moderation, still more decisive is the verdict of statistics. Those of the rent-rolls are as follows:—

Rent-rolls.

Pargana.		Assess	nen	t.	Year.		Rent-	roll.		Collec	tior	15	Arre	are	le
		Rs.	a.	<u>р</u> .			Rs.	8.	p.	Rs.	8	<b>p</b> .	Rs	a.	p.
Pur Chaper	•••	69.163	12	0	1281 fasli		1,53,209	0	0	1,45,927	0	0	7,242	0	0
- 4. Carpet 100	•••	69,317	8	Ō	1282 ,,		1.54.880	ŏ	o	1,47,247	Ō	Ŏ	7,633	0	0
		69,471	4	0	1283		1,57,604	ŏ	o	1,52,848	Ō	0	5,256	0	0
		69,550	0	0	1284					1 ' '			•		
Musaffarnagar	900	82,160	0	0	1241 ,,	201	1,66,108	0	0	1,55,907	0	0	10,201	0	
_					1282 ,,	•••	1.65,551	0	0	1,53,975	0	0	11,576	0	O
•		l			1283 "	•••	1,63,806	0	0	1,53,819	0	0	9,987	0	0
Bhúkarheri	•••	73,886	0	0	1281 ,		1.57.053	0	0	1,49,753	0	0	7,300	0	0
		73,848	8	0	1282 ,		1,54,191	0	Ü	1,43,623	0	0	10,568	0	0
		74,311	0	0	1283 "		1,56,221	0	0	1,44,788	ø	0	11,486	Q	0
Janli Jánsath	•••	81,110	0	0	1281 ,,		1,71,234	0	0	1,60,863	0	0	10,871	0	0
	•••	,			1282 ,,		1,72,591	0	Ò	1,54,319	0	0	18,272	0	0
		}			1283 "	•	1,69,636	0	0	1,45,074	0	0	24,612	0	9
Khátanli	•••	88,106	0	0	1281 ,,	•••	1.92,155	0	0	1,71,697	0	0	20,598	0	0
		,		•	1282 ,		1,91,785	0		1,65,011	Ü	0	26,774	0	n
					1283 ,,		1,88,441	0	0	1,62,276	0	0	26,165	0	. 0
Bhumah Sambalhera	h	45,856	0	0	1281 "	•••	94.567	0	0	89,891	0	0	4,676	0	0
		\			1282	•••		0	0	84,780	Ō	0	6,295	0	0
•		ĺ			1283 ,	•••	A	0	0	85,542	0	0	7,:09	0	0
	(	4,89,781	12	0	1281 "		9,84,326	n	0	8.73,968	0	0	60,358	0	o
M-A-1	)	4,40,398		ō	1282 "		9,30,073	0	Ō	8.48.955		Ō	81,118	0	
Total	1	4,41,014	4	0	1283 ,,		9,28,412	-	Ō	8,43,647		_	84,565	0	
	,	4,41,095	0	9						1					

The rent-rolls for 1284 fasli have not been given, as in them all rental of sir land has been omitted. This is, I think, to be regretted, and it is in my opinion desirable that ex-proprietary rates should be applied to all sir cultivation. In this way not only will a fair rent-roll be obtained, but in the case of transfers the rent of the ex-proprietors will have been fixed beforehand. The evidence of the rent-rolls is on the whole in favour of the moderation of the assessments. The arrears are those of the year, and the greater part of them are no doubt eventually collected. They are largest in those parganas in which there are most Sayyid cultivators, and it is not much to be regretted if profits are occasionally restricted in those townships in which a few of the more powerful Sayyids have succeeded in depriving their weaker brethren of proprietary rights. But even in Jauli Jánsath the result is not unsatisfactory, for during three years of unfavourable seasons and moderate prices the collections recorded to have been made amount to 93 per cent of the amount assumed by the assessments to be the proper rental.

20. But perhaps the best test of the moderation of an assessment is that given by the price of land. If the demand is oppressive, the price of land must be low; if, on the other hand, land fetches a high price not only in exceptional cases, but throughout a considerable extent of country and through a series of years, it may fairly be assumed that the assessment is not too heavy. The statistics of transfers are as follows:—

The evidence of transfers.

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	Jama	Rs. 126 1 141 184	80.00	8888 8386 872 1	9,100	420 14 400 4 618 0 1,966 12	3,897 15
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Ratio of price to assess

21. For convenience of comparison the number of years' purch ise is excerpted:-

Pargana.	Fasli year.	Private sales.	Sales by order of court.	Mortgage.
		Years.	Years	Years.
	1281	30	19	26
	1283	18	19	13
Púr Chapár		19	18	16
	1284	21	21	19
•	Average	21	19	16
	( 1291	22	17	21
	1282	21	20	19
Muzaffarnagar	< 12≥3	21	20	20
	1284	21	17	18
	Average	21	18	19
	1281	23	18	12
	1282	85	9	17
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	1284	26	16	13
	Average	26	9	18
	1291	16	19	8
	1282	80	19	12
Jauli Jánsath	···	16	14	15
	( 1184	22	12	15
	Average	23	16	19
	1281	19	10	11
Khátauli	1282	29	14	16
nustaum	\ 1283	26	12	21
	1284	28	11	18 15
	Average	20	11	19
	( 1281	12	12	13
Dhamah Sambalha	1281	23	12	13
Bhúmah Sambalherah	\ 1283	14	8	
	1284	28	6	11
	Average	23	7	12
	1281	16	18	16
Grand Total	1982	28	17	14
	1283	20	11	15
	1784	24	10	14

The area transferred during the four years following the commencement of the term of the new settlement has amounted to 6 per cent. of the total area of the tract, but the prices obtained preclude the view that the transfers can have been caused by the incidence of the demand. The variations in price are very considerable, but when the areas transferred in each pargana are small, such differences are easily caused by the transfer one year of a sandy tract and the next of highly irrigated land; competition, too, has an important effect in prices, and the very high prices of land obtained in some parganas, more especially in 1874-5, are owing to the wish of more than one wealthy person to posses the same land.

The average rate of mortgage follows generally at a suitable interval that obtained at private sale, but the prices obtained at public sales still lag decidedly behind all others. There is no reason to suppose that the shares which are sold by the order of the courts are in any degree inferior to those which are sold privately, and yet the price of land sold publicly is almost invariably lower, not merely slightly, but to an excessive degree, than in the case of land sold by private bargain. Some allowance must of course be made on account of the more hurried and forced nature of the transaction in the case of sales by order of the courts, but the difference between 22 and 12 years' purchase is, in my opinion, far too great to be satisfactorily accounted for by any suppositions which exclude the want of sufficient notice or of sufficient care in the conduct of sales. The difference, it is true, between the prices obtained at public and at private sales is general throughout the North-West Provinces, but this seems only to prove that something is wrong in the system on which sales are conducted, and that improvements are urgently required.

Sales by auction.

- 22. There is certainly no department of our administration regarding which more bitter complaints are made, and no one can make frequent inquiries as a settlement officer has to do into the circumstances of transfers without hearing frequent insinuations as to the insufficiency of the notice which is given of when land is to be sold and the irregularities alleged to exist in the conduct of sales. The improvements that seem to be required are:—
  - 1st.—Greater care in advertizing sales. The civil courts retain in their own hands the issue of notices; but it would be easy for collectors to supplement these notices through the tahsil officials by additional notices, not only in the village in which the land to be sold is situated, but in adjoining townships.
  - 2nd.—Greater care in the conduct of sales. Not only impartiality on the part of the officer conducting sales, but the strictest supervision of subordinates is required. There is nothing more easy than to mislead and hustle ignorant villagers, the absence of whose competition leaves the property to be sold at the dis posal of the judgment-creditor.

The people of this country are not sufficiently instructed to be able in these matters to look after their own interests; they should be protected as far as may be from injustice and oppression. We are always ready to charge the money-lending class with fraud and oppression; it is curious that we should so often practically assume that fraud ends when a decree is obtained.

23. But even when sales by order of the courts are included, the average price of land during four years is 18 years' purchase of the Government demand and 23 years' purchase of the assumed profits; such prices furnish strong evidence of the moderation of a settlement, and could hardly be obtained if the assessments were unduly severe. The contrary criticism, which is apparently more plausible, that the prices of land show the assessments to be unduly light, must be parried by the reflection that a heavy enhancement has been taken, and that it is notoriously difficult to increase the land revenue more rapidly without imperilling the prosperity of the country and causing the greatest hardship to the people.

But the circumstances that the present demand is in many cases light, that irrigation is still extending, and that prosperity is likely to continue, furnish sufficient reason, even if this were not already determined on other grounds, for restricting the period of settlement to twenty years.

24. Very considerable as has been the progress of this portion of the district which may be attributed to the almost uninterrupted security of life and property for thirty years, to the steady if slow increase in the population, to the improvements in communications which have rendered distant markets accessible, it is unquestionable that the exceptional advance which has marked the last twenty years is entirely owing to the Ganges Canal. This noble work, in itself a line of communication, destined no doubt to be far more important in this respect than it has been, has attracted population from without to the tract which it secures, and has in this way contributed to the list of causes of a gradual advance. But it has done far more: it has secured the tract as a whole, and almost every village within its limits from periodical scarcity, so that agricultural advance is no longer interrupted at intervals by calamities which leave their impression many years after the seasons of drought themselves; it has brought easy irrigation with a minimum expenditure of labour to dry exges which previously had no irrigation, it has perfected without involving any increased demand for labour the irrigation of those villages which were imperfectly watered, and it has in previously fairly irrigated tracts economised labour to such an extent that in such neighbourhoods agricultural progress has been no less striking-indeed, it has been even more marked than in those tracts which have been enabled to use water for irrigation for the first time.

Average price of land.

Exceptional progress of recent years due to Ganges Canal. Errors in distribution.

25. If the officers who had to distribute the water of the Ganges Canal had had the benefit of experience similar to that which the history of the canal has since furnished, and had they been able to disregard a natural but unfortunate anxiety for immediate palpable results, or had they been able to conduct the revenue administration of the canal, without reference to the land revenue administration, and this might have enabled them to show fair results without sacrificing to them the interests of the country at large, there can be little question that the distribution of water would have been effected in a very different manner from what has been the case. In the anxiety to make canal water promptly available, and to secure an immediate revenue, distributaries were no doubt constructed with undue haste and without sufficient care; but independently of such mistakes in construction which were under the circumstances almost inevitable, and which have to a great extent since been remedied, there were serious mistakes in the system of distribution which were almost unquestionably owing to the unfortunate anxiety for palpable results.

Difficulties of canal offi-

26. And it must be allowed that the revenue administration of the Ganges Canal was placed in a most unhappy predicament. Water-rates were fixed in a haphazard manner, and were discovered when settlement operations were instituted to have been all along unduly low. The fact that the advantage of irrigation was afforded at a price much lower than the irrigation was worth naturally had its effect on rents; where these were levied in kind and by crop rates, the proprietor received from the cultivator his old share of an increased produce, and high rates for the better crops grown in an increased area. Where rents were taken in money, the tenant was more gradually but not less surely made to pay enhanced rates, or when the landlord's ininfluence or power was overwhelming, he was made to pay in kind and by crop rates instead of unvarying money rents.

It is obvious that the officers of a department expected to show immediate pecuniary results, but without liberty to take a full price for the irrigation-advantages at their disposal, were in a measure forced to distribute the water of the canal in the method which would necessitate the least initial expenditure, and would secure the largest irrigation of the most valuable crops. The poor and arid tracts were in this way rather avoided than studied in the Ganges Canal tract, as well as in the country watered by the Eastern Jumna Canal; and although the canal could hardly avoid watering the dry neighbourhoods through which it ran, dry tracts at a short distance were neglected, while water was being poured into villages sufficiently if not fully protected by wells.

Consequences of mistake

27. The consequence of such a shortsighted method of distribution was that not only was the country at large less benefited than might have been the case, but the revenue of the canal was eventually distinctly less, and very seriously less constant than it might have been under a better system of distribution. For when water is poured without stint over a limited area, it is impossible that the whole of the water should be utilized every year; as a matter of fact it is not fully utilized one year in ten, and cannot possibly with the present population and with the present appliances of agriculture be in ordinary years fully taken advantage of. The true policy of canal distribution would have been to have extended the advantages of canal irrigation as widely as possible, and to have treated with special consideration those tracts which were the driest and the poorest, which most needed extended irrigation in ordinary seasons, and were most liable to injury in years of drought. Such a policy would have at once protected the greater portion of a district like Muzaffarnagar; it would have enabled a larger population to grow the best crops with a full prospect of success; by devoting canal water to the best land of many villages, it would have rendered it possible to levy full rates in a shorter time, and, above all, it would have rendered the demand for canal water much more constant than it can be, until the system which was originally adopted shall be gradually abandoned and more extended distribution shall be effected. The system of which I speak does not appear to have been peculiar

to this part of the Doah, for in a discussion regarding the influence of the canal on the Cawnpore district it was remarked that "the Engineers who first laid out the senal thought of little else but the fertile parts of the country, and as a consequence took it through those tracts which were already sufficiently irrigated by wells." This is probably a somewhat too sweeping statement, but it is generally acknowledged that the system of distribution which was adopted had for its object the prompt collection of water-rates for the largest possible area of the more valuable crops.

28. And for this result the land-revenue administration is as distinctly respensible as that of the canal; for many years even so late as 1867 it was insisted that canal irrigation had little or no influence upon the revenue, and the Irrigation Bepartment was prevented from looking to indirect revenue as a justification for a system which would have necessitated a larger initial expenditure on distributaries, and a greater annual expenditure on distribution, the full advantage of which would only have been apparent after the lapse of years. There are many portions of the district in which it is easily conceivable that the Engineer may have paused to consider whether the water-supply at his disposal was to be taken through a poor dry tract, with no rice and little sugarcane, or into a fertile depression fairly irrigated by wells and with much of the land under the best crops. In the one case the distribetary might have provided for limited portions of many poor estates; progress would have been slow. There was no labour available for the rapid extension of higher cultivation, and although it might be hoped that, working with better heart and gradually increasing resources, the inhabitants of the poor tract might eventually he able to utilize every year the whole of the supply, this was at the best doubtful, and the prospect was at any rate distant. In the limited tract, on the other hand, the rice-fields were there already, and the extensive augaroane erop, testifying as it did to the goodness of the soil and the industry of its occupants, formed a temptation too great to be resisted. And if even long after the first opening of the canal other considerations, such as the good of the country at large, the influence on the land revenue, had been entertained, the first would hardly have prevailed against departmental necessities, and the second could not be expected to have much weight when the revenue authorities depreciated both in theory and in practice the effect of canal irrigation upon the land sevenue. The consequence generally was that canal distributaries were run out at atated intervals, and where any preference was shown, it was shown to the more fertile neighbourhoods which least required any new means of irrigation; and while the more distant tracts, although within ten miles of the main canal, were left almost or entirely as they were, the still more accessible villages were deluged with a quantity of water which they could fully utilize only in seasons of extreme drought, and which in ordinary years was for the greater part allowed to flow past unused. Gradually and notably within the last few years better counsels have prevailed, the extension of irrigation to outlying villages and tracts proceeds year by year, and it may with confidence be hoped that irrigation from the canal may gradually, owing to extended distribution, become more constant, and that the proportion of water expended on the better crops may become greater.

29. The irrigation statistics of the Ganges Canal tract in Muzaffarnagar show that the irrigation of the kharif crops is fairly constant, while there is available in the cold weather water for double and treble the area which is ordinarily irrigated, and both in the kharif and rabi the area of constant irrigation may be approximately ascertained.

AREA IRRIGATED IN ACRES.

1867-68. . 1866-62. : 2869-79. 1870-71.

Eharif ... ... 35,967 36,253 41,042 31,519
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Land revenue administration partly responsible.

Water-supply not always ntilized.

Sugarcaue in canal-irrigated estates is always watered when water is available, se is munji or the finer rice; while in the rabi the wheat which is irrigated year after year is that which is grown on the best and most carefully cultivated soil. If the water-supply were restricted in each village to what is required for cane and the finer rice, the full supply would be always utilized; and if a similar statement cannot be so confidently made regarding the rabi irrigation, it is no less certain that the more the supply is distributed, the larger will be the proportion of the constant' irrigation to the maximum irrigation. The enormous expansion of rabi irrigation in a year of drought shows that a supply is retained at the disposal of certain. villages, two and three and often many more times as great as can be ordinarily: made use of. Much of the land exceptionally irrigated in this way is so poor that it is never again irrigated until another season of drought and high prices comes. round, as nothing but famine prices enables it to pay the cost of irrigation. In this. way, to irrigate an acre once in twenty years, a water-supply is maintained in excess, of that which can be utilized. Year after year it runs to waste, and when it is taken, advantage of, it does much less good when given to the unproductive outlying land of the over-irrigated village than it would have done not once, but many times, if taken. to an estate elsewhere urgently in want of water. The maintenance, therefore, of a. supply of water greater than can be ordinarily utilized is not only injurious to the interests of the State as canal owner, as depriving it of the receipt of water-rates, but is injurious to the country at large, as sacrificing a very considerable benefit to one which is trifling.

Mistakes committed have not injured tract under report.

But the number of estates left unirrigated in the tract which is the subject of this report is not numerous, and has, since the settlement has been completed, and partly in accordance with my representations, been considerably lessened by the construction of a rajbaha which now irrigates the south-western portion of the pargana of Bhumah Sambalherah. And as the wants of other parts of the district have been sacrificed to this tract, the benefits which might have been secured in this tract and have not been obtained are not so great as elsewhere. But the less skilfully water is distributed and the less fully it is utilized, the less effect the canal has on the productiveness of the land and on the land revenue. The income and profits of the canal are diminished and the country is injured by the loss of produce which might have been obtained by the failure to secure an income which might have been fairly earned, and last but not least by the increased difficulty involved by all these failures in making clear the full benefits which the canal has conferred upon the country, and in this way of rendering less likely the extension of similar benefits to other neighbourhoods. But all the errors in principle which have marked the history of canal administration have had the effect of temporarily at least enhancing the apparent benefits which this tract has derived from the canal. Needless liberality in the distribution of water has substituted irrigation with a minimum expenditure of labour for the old laborious method of raising water from wells, and has effected an economy of labour the amount and results of which have been already noticed. And if the advantage of having at its disposal an extraordinary supply of water in seasons of emergency is one which it is difficult for a settlement officer to consider in assessement, it is one the value of which is unquestionable to the tract which is benefited at the expense of the country at large,

Influence of low waterrates on rents.

- 31. When canal irrigation was first introduced, rents were ordinarily taken—
  - (a.) by division of the crops;
  - (b.) by appraisement and the calculation of the landlord's share;
  - (c.) by crop rates;
  - (d.) by money rents.

In the last case the landlord at first derived no advantage from irrigation except in the increased security of his rent, but when crop rates alone were customary he received higher rents when better crops were more largely grown. But crop rates

and kind rents generally went together, and at first the apparently equitable arrangement was generally adopted, that when a cultivator irrigated from the canal a crop of which his landlord got a share, the landlord should pay the same share of the waterrent that he received of the crop. Experience, however, showed that, even if he paid the whole rent, the cultivator gained largely by canal irrigation at the water-rates charged, and eventually it was found that the water-rates were so low that the cultivator could afford to pay not only the whole of the water-rent, but additional rent for the advantage he enjoyed of obtaining water for irrigation at a low price.

- This difference between the rent for dry land and that which has come under canal irrigation constitutes the item which the advocates of assessment, irrespective of canal assets, would wish to see appropriated by the State through the Irrigation Department. At present the Irrigation Department charges a set of haphazard rates for the advantages of irrigation. These rates are so low that the rent of land irrigated is largely enhanced. Up to the date of revision of settlement the whole of this unearned difference is lost to the State, and even after revision of settlement only half of it is claimed. This addition to the land revenue due to the canal is the indirect revenue for which credit is given to the Ganges Canal.
- This indirect revenue as estimated under the orders of the Board of Revenue at Re. 1 per acre of increased irrigation amounts to a sum of Rs. 1,00,999 for the revenue from canals. tract under report; but as the question is an important one, it is as well that the more detailed estimate based on the difference between wet and dry rates should be given; as follows :-

Difference between rent of canal-irrigated and dry

Estimates of indirect

Page 1846		<b>R</b>	ent-roll calen	Rent-voll calendated on soil areas independent of the canal.	dependent of	the canal.		Rent-rot	descripted on area	Rent-voll balculated on area of present revision.			
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	Ren	t-roll ealenk	Rent-roll ealenkated on soil areas independent of	dependent of					
Parpon.	Area recorded irrigated in 1841.	Assumed increase at 25 per cont.	Total,	Average sesumed rent-rate per acre.					
-	•	•	*	4					
6. Bhumah Sembalherah,	828	*	4,314 Wet let musti. 6,660 Wetlst ramil dry. but for canal.	Re 4 6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					
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			8,847 Dev and remails	1 16 11	10,660 6 0		1 18 11	10,660 6 0	
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Total of the above six Parganes.	\$1.408	5,349	26,752 Wet 1st rouli. 73,032 Wet 1st rausii dry.	* 1 * 27 * 2	1,65,405 6 0 2,90,197 4 0	Wet let nauell.	5 18 10	5,85,098 & C	
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70.24		•	87,815	1 12 10	66,116 \$ 0		1 18 10	64,118 \$ 0	
· · · · · ·		<u> </u>	Dry bhár.		96,060 à 6	76,875 Dry bhúr.	•	96,069 a 6	
GRAND Terat	:	1	2,68,897	\$ 13 4	7,51,586 8 6	3,43,687	* 7 *	9,00,443 16 9	1,57,608

Method of compiling fore-

In the compilation of this statement it has been assumed that had the Ganges Canal not been constructed there would, during the thirty years between Mr. Thornton's settlement and the present revision, have been an increase in the irrigated area amounting to 25 per cent., or 1,568 acres. This assumption is shown by the experience of these estates into which canal irrigation has not been introduced to be a sufficient one. The probable area of irrigation independent of the canal having been obtained, it might seem that all that remained to be done was to calculate the difference between the assets of the increased area at wet rates and that which would have been obtained by dry rates. But in a plentifully irrigated tract, the rates applicable to dry land are lower than they would have been if only a small proportion of the area had been watered. As a rule, in such a tract the land which has been left unirrigated lies high, or is distant or inferior. The manure, moreover, being insufficient for the irrigated tract, is not expended on the dry land, which is therefore less carefully cultivated on the whole than formerly. In this way the rent-rates which are suitable for the dry land of a fully irrigated tract, would have been and are low for similar land in a neighbourhood in which only a small proportion of the area is irrigable.

For dry 1st rausli, therefore, there have been assumed rates which would have been fair had irrigation been extended to 10 instead of nearly 50 per cent. of the cultivated area. This procedure was all the more necessary in the northern parganas, in which formerly all the best crops were grown on dry land, and would have been so grown now had the canal not been constructed. Had there been no canal, the dry land of these parganas would have been used for sugarcane, cotton, and rice, while now only wheat and juar or urd alternate, and the land is never manured. to 2nd rausii on the other hand, credit has been given to the canal for the full difference between wet and dry rates, as although the increase in the productiveness of such land is owing as much to improved cultivation as to irrigation, the improvement in cultiyation would not have taken place generally had the land not become irrigable. In some parganas there is a considerable difference between the revenue by the assumed rates and that actually fixed. This is owing in a great measure to the circumtsance that the supply of can's water is greater than the people can properly utilize, and to the assumed rates having proved in consequence too high for the villages in which the water-supply was excessive and the irrigable area had been most rapidly extended. On the other hand, if the canal had not been constructed, more allowance would have been made in consideration of the uncertainty of the produce, of the circommetances of owners and cultivators of the less industrious castes, who, if their land had been left dry, would have required more indulgence than it has now been necesmry to show to them. The full difference, therefore, between the result of the wet and dry rates has been credited to the canal, and when the many benefits conferred by the canal, which it is not easy to calculate, are considered, I do not think that I have done more than justice to the canal.

- 35. The considerable difference between the estimated increase to the assets per acre of increased irrigation and that per acre of land recorded as irrigable from the canal in parganas Jánsath and Khátauli is owing to the fact that in these two parganas, and especially in the latter, canal irrigation has in a great measure merely superseded the use of wells, and that a considerable portion of the area irrigated by the canal might have been watered even had the canal never been constructed. The result of the substitution of canal for well irrigation has been to economize labour, and in this way to render the rapid improvement of cultivation possible, but still the effect upon the revenue and the benefit to the country are less than if the canal water lavished upon the well irrigated land of these parganas had been given to drier tracts.
- 26. In some parganas, notably in Bhúkarheri and Bhúmah Sambalherah, the increase to the assets and assessment has, it is likely, been understated, and throughout

Influence of previous irrigation upon the estimate.

Increase of assets probably understated. the tract it is difficult to estimate the indirect benefits which have been conferred upon this tract by a work which has given such an impulse to improved and extended cultivation, and, by enriching the people and saving them from periodical losses from drought, has raised the condition of the agricultural classes and enabled them to do more for the land. It may therefore, I think, be assumed that the gain to the land revenue derived from the canal has been not less than Rs. 78,804-3-4, and that the many benefits, the money value of which cannot be easily calculated, which the canal has conferred upon the district, and among them a considerable part of the increased cultivation, far more than make up for the deterioration of the khádir lands, the injury to which in the tract under report calculated by the rent-rates amounts to Rs. 2,532, giving a loss to the revenue of Rs. 1,266.

Amount lost to Government.

37. Even if it were impossible to secure the whole of the corresponding sum which this calculation shows to have been left in the hands of the proprietors of the land, it may safely be assumed that water-rates might be fixed with a moderate amount of accuracy which would lessen by Rs. 50,000 the sum left in the hands of the landowners. If this assumption be a fair one, the loss to the State in this tract alone arising from the system of assessment now in force will amount during the term of a twenty years' settlement to a sum no less than Rs. 10,00,000, while the system of canal-revenue administration which has become interlaced with that of the revenue settlement has involved before settlement the loss of at least an equal amount. But over and above the loss of water-rates which might have been earned in the revenueraying portion of the Ganges Canal tract, there is a further serious loss with respect to the 11,953 acres of revenue-free land which are irrigable from the canal. Calculated on the same system which has been followed in the case of revenue-paying land, the increase to the assets amounts to Rs. 20,613-9-0, while at the rough general rate fixed by the Board of Revenue a fair estimate of the increase to the assets is Rs. 23,906, the whole of which is lost to Government.

I have been conscious throughout the settlement that I have been assessing on a system which in common with the great majority of revenue officers in the North-West Provinces I held to be a wrong one, and I have stated my opinion on the subject in each revenue report as it was submitted, but the question, important as it seemed to me, failed to attract attention.

Practicability of raising the water-rates.

38. I would now in conclusion put on record the opinion which I hold very strongly regarding the proposals often made, and likely to be repeated more frequently as the regret at the large income that has been lost grows stronger, for the enhancement of the canal water-rates. This has been done with regard to rice; but raising of the water-rate for rice was desirable for other than canal revenue reasons, and is most villages in this tract rice was an optional crop which had not ordinarily been taken into consideration in fixing the land revenue and rents. But to raise the water-rates generally is to affect the whole basis of assessment. Land that was in former days worth from Rs. 3 to Rs. 4 per acre has become worth Rs. 6 and apwards because it has been supplied with flush irrigation at a certain water-rate. If the water-rate is raised, it is obvious that the whole basis of assessment is affected. We raise the land revenue because irrigation at low water-rates has enhanced the value of the land; to raise the low water-rates now would be to remove the argument which led to the raising of the revenue.

Necessity of further investigation. 39. The loss to the State from the present system has been so great that it is no wonder that considerable anxiety should be shown to retrieve a portion at least of the revenue that has een abandoned; but one of the worst features of the system of assessment which has been adopted is the way in which it fetters the revenue administration of the canal. Fortunately, however, the periods of settlement in the upper Doáb districts, although unhappily extended, are drawing to a close, and the interval which must elapse before settlement operations are again begun in Saháranpur and Bulandshahr would

be best utilized, not in disturbing the basis of existing settlements, but in preparing by patient investigation for a future settlement on sounder principles than those which have guided the assessments now in force.

40. For this purpose the revenue-free estates, in which Government is bound by no engagements, offer an admirable field for investigation and experiment, and their area is so great that an important addition to the revenue might be obtained by the introduction into them of full water-rates. And considerable as the interval still is which must elapse before the revision of settlement can begin, it is necessary that the principles on which it shall be conducted shall be fixed in advance, and that these districts should not be again exposed to the danger of a hasty decision, formed after the work of settlement had been to some extent carried on, in doubt as to which of the rival systems was ultimately to prevail.

Utilization of revenuefree estates.

41. The estimated increase to the assets from irrigation at the present rates is Re. 1-9-6 per acre of increased irrigation estimated to be due to the canal, whereas in villages in which irrigation has been given to a limited area of good land alone, the increase rises to Rs. 3 per acre. As this point and the one connected with it of the practicable addition to the present water-rates are still of some practical importance, I append the substance of a note written with reference to the enhanced water-rates since fixed for the Agra Canal:—

Actual increase to the assets from canal irriga-

"1. In the upper Doah, in which flush irrigation from the canal was almost universal and irrigation by lift was rare, the important increase to the rental of canalirrigated land was the argument usually adduced to show that the water-rates charged by the Irrigation Department were low. And the argument is a very strong one; if land which, before coming under irrigation from the canal could pay a rent of only Rs. 3-8 to Rs. 4 per acre, can now pay Rs. 6 to Rs. 7, a water-rate of Rs. 3 on an average being charged, it seems absolutely certain that Government, by increasing the water-rate, could intercept a portion of the increased profits which are appropriated by the landlord.

Argument from effect of flus irrigation on rents.

"2. Mr. Buck in his note on irrigation in pargana Tirwa argued from the ability of cultivators to lift water at the present rates, their ability to pay very much higher rates than are at present charged for flush irrigation. Fortunately for a tract in which population is still insufficient, irrigation from the canal by lift is very exceptional in the Ganges Canal tract of this district; but the experience of the villages in which it has to be resorted to entirely confirms Mr. Buck's conclusions, and those which had been arrived at from the more obvious argument in the upper Doáb, the enormous enhancement of the rental owing to the supply of canal water flush at the present rates.

Argument from lift irrigation.

"3. In the upper Doab irrigation is required a less number of times in the year than in the lower Doab; and it may be assumed that if the number of waterings given annually be divided by the number of irrigable acres, the average can hardly exceed two waterings annually, so that the land and water-rent for good land irrigated flush and by lift respectively might be stated roughly as follows—

Calculations derived from existing rates.

				lent e	f lan	i.			A-0	Cost of lift	
			Origi rat			ng to	Total.		Average water-rate		Total.
Flush		<b></b> '	Rs, a.	0	l	_	Rs. a. p		Bs. a. p.	Rs. a. p.	Rs. a. p.
By lift	***	***	- 13	U				<b>ע</b>	• 0 0		7 8 0

[&]quot;The rent given is that of good land in a village in which the supply of canal water given can be fairly utilized. The addition to the rental owing to the canal is in excess of the numerical average arrived at, but it is a fair average for a good village in which

the population bears a sufficient proportion to the irrigated area; the average waterrate is in excess of that arrived at by dividing the average income from the Ganges Canal by the area irrigated from it, but Rs. 3 represents the average payment to the canal per acre of land irrigated from it in an ordinarily good village; the arithmetical average is only Rs. 2-12.

"The charge for lift is the lowest which has been ascertained in this district—Re. 1-8 per pucka bigha for two waterings. A more ordinary contract rate is Rs. 2 per pucka bigha. This would give Rs. 4 per acre and would admit of a greater possible enhancement of water-rate; but as far as can be judged from the difference between flush and lift rent-rates, the seasons help the cultivator irrigating by lift more than most calculations take for granted.

Argument derived from spenditure on lift irrigaon. "4. If a man watering by lift can pay in this neighbourhood Rs. 5 for water, it is obvious that a man receiving canal water flush could pay more than Rs. 3-6 for the advantage. The large margin left by low water-rates is eventually added to the rent, and the greater part of this addition might be appropriated by the Canal Department, and the rent-rate charged for land watered by one lift is a moderate one. In many villages it would stand at Rs. 4-14 or even Rs. 5-4, thus increasing the total payments for land and water to Rs. 9-14 and Rs. 10-4.

"But adhering to the old figures, if Rs. 3-12 be a full rent for fair dry land, and the cultivator irrigating by lift can pay Rs. 5 for water, it is clear that, even assuming that there is no margin left after this payment, the cultivator irrigating flush might pay quite Rs. 2 more than he does; and where the effect which even lift irrigation at the present rates has on rents is considered, it appears that the present water-rates might be increased by two-thirds. And the practical result of the calculation is not affected if, instead of the estimated expenditure per acre irrigated, be entered the estimated expenditure per acre irrigable land is unirrigated one out of three seasons.

"The calculations would then stand:-

		Rent o	f land.		Average an-	Average	
		Dry rate.	Due to canal irrigation at low rates.	Total land rent.	nual charge for water per acre irriga- ble.	annual cost of lift and distribution of water.	Total.
	,	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Flush Lift	•••	3 12 0 3 12 0 3 12 0 3 12 0	2 4 0 0 12 0 1 2 0 1 8 0	6 0 8 4 8 0 4 14 0 5 4 0	2 0 0 1 5 4 1 5 4 1 5 4	0 4 0 2 0 0 2 0 0 2 0 0	8 4 0 7 18 4 8 3 4 8 9 4

Result of calculations.

"5. Now, taking the lowest rent-rate for land irrigated by lift, it would appear that for such land the annual charge for water per acre irrigable amounts to Rs. 3-5-4, and that this charge leaves a margin which, not being appropriated by the water-owner, is eventually taken by the landowner. Taking the two together, the water charge and the margin, and comparing the sum with that paid for flush irrigation, we get a possible enhancement of water-rate to the amount of Re. 1-13-4, or over 90 per cent., or without taking any increase of rent into consideration, a possible enhancement of water-rate amounting to Re. 1-1-4, or nearly 50 per cent.; this may be looked upon as a safe minimum. The possible enhancement given by the enhancement of rental of fields irrigated flush is Rs. 2-4-0, or 100 per cent. The increase to the rental owing to irrigation from the Ganges Canal, almost entirely flush in this district, is estimated at Re. 1-5-6 per acre ordinarily irrigated from the canal and Re. 1-9-6 per acre of increased irrigation; but this increase to the rental has been greatly lessened by the needlessly lavish way in which canal water has been poured over tracts which are unable fully to utilize the supply given to them.

"6. But theories cannot always be carried to their logical conclusions; if the Government had not been fettered by the system on which assessments have been based, the following rates might have been levied, and they are, I believe, suitable for newly irrigated land.

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Cane, rice, garden crops, singharas ... Flush Rs. 7 8, Lift Rs. 3 12 annual.
Rabi, indigo, and cotton ... ... ,, ,, 3 8 ,, ,, 1 12 per fasl.
All kharif crops not specified above ... ,, ,, 3 0 ,, ,, 1 8 ,,
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"When rice is followed by cane, the rice might be charged Rs. 6, as the cultivator would be charged for one fasl only. Such a rate would restrict rice cultivation to the best land, and to such an extent of it as the cultivator is able to manure effectively and keep under the most careful cultivation.

"The lift rates are somewhat higher in proportion to those proposed for flush irrigation than any calculation will justify, but in practice the expense of lift irrigation is lessened by opportune showers, which, although they cannot easily be taken into account, none the less affect the cost of lift irrigation in a term of years.

"The water-rates for crops other than rice I would enhance not so much in order to restrict irrigation as to secure a fair return to Government, and to obviate the possibility of a very decided effect on the rental and the necessity of a landlord's rate.

"7. The restriction of canal irrigation can be most easily effected by the prudent distribution of canal water, and excessive raising of the rates would prevent the full benefit to the country from the construction of the canal. Practically, in the upper Doáb, the only crops ordinarily irrigated in the kharif are sugarcane, cotton, and the finer rice. A low rate permits the cultivator no doubt to grow these crops in inferior lands, but this is especially the case with rice, and that has been provided for. To charge high rates with the special object of restricting cane and cotton to a small area of very highly manured land would be to attempt to change the system of agriculture in the upper Doáb. A man might perhaps grow finer crops if he restricted the manure at his disposal to (say) one-quarter of his land, but the average would be less good than at present, when the Ját of the upper Doáb takes his cane round the whole of his irrigated land, and manures the whole of that irrigated land once in every three, four, or five years, instead of half of it only in two. The limitation of irrigation must be effected not so much by prohibitive rates, which would do more injury in poor tracts than good in rich neighbourhoods, but by prudent distribution of canal water.

"If the Canal Department will only fix a certain proportion of the area to be irrigated and will hold to it, the evil of over-irrigation will easily be avoided and the supply of water will be regularly utilized. A supply of water sufficient for the irrigation of 40 per cent. of the area of a village each year will provide fully for 60 per cent. of the area, and may be made to secure about three-fourths in a season of emergency; and what is of considerable importance, the water-supply is likely to be utilized every year, not merely once in a decade. In ordinary seasons half the rabi supply runs to waste, and will do so until distribution is much more effective. In a new canal the object should be, in my opinion, to irrigate a limited area in many villages rather than a large area in a few. Distribution will cost more, but the revenue will be more constant and the good done will be much greater."

Water-rates suggested,

Restriction of canal irri-

## CHAPTER V.

## RECORDS AND CONCLUSION.

The settlement records.

The method of compiling the settlement record is generally uniform, and there is no object in describing operations which vary but little in different districts. If the practice in Muzaffarnagar has varied from that ordinarily followed elsewhere, it has, I hope, been in the systematic attempt to fix fair rent-rolls and to secure the rights of the tenants in the fourth chapter of the wajibulars.

Khewats.

2. The preparation of khewats was rendered comparatively easy by the short period which had elapsed since settlement, and by the general intelligence of the people quickened by their recent experience of settlement operations. Disputes regarding proprietary rights are often difficult and troublesome, but subsequent experience has led me to believe that the greatest difficulty and trouble are the ascertainment among an ignorant or careless population of where the disputes lie, and of the grounds for the claims which are made. In Muzaffarnagar there is a considerable leaven of education; the people are naturally shrewd and intelligent, and constant contact with the Canal and Settlement Departments has given them familiarity with the affairs which chiefly concern them. Even in cultivating communities, some more or less educated and intelligent members were generally ready to fight on either side the battles of their friends, and to bring forward with tolerable promptitude and distinctness the claims that were to be made. On the whole disputes were not very numerous, but here and there a Shaikh township contributed almost as many cases as the rest of the pargans.

Case work.

3. The cases of all kinds instituted during the continuance of settlement operations were as follows:—

			Disros	DO OF.		
Description of cases.	Instituted.	On trial.	Adjusted or with- deawn.	Struck off in default.	Total.	Pending.
Revision of settlement records	4.991	4.548	98	250	4.991	
Boundary cases	34	38	1 1		34	
Adjustment of rents	969	890	36	48	969	-
Alterations of isma	1	1			1	
Miner process of durees	10	10			10	
Sequestration, revenue	1	1	l I	1	1	
Suits under sections 23 and 24, Act X. of 1869, and under Act XIV. of 1863.	340	295	34	30	249	
Other applications and cases ditto	497	453	2	2	457	
Suits under Act XVIII. of 1873	2	2		I	3	
Ditto ditto XIX. of 1873	487	<b>3</b> 87	32	120	439	487.
Execution of decrees under Act X. of 1859	. 125	109		13	122	33"
Patwáris' cases	273	272	1 1	••• 1	273	-
Mutation to malgu-   By inheritance	41	41	1 1		41	
zari estates.	40	40			40	
Ditto registered deeds	11	11		•••	11	***
Mutations in music estates	65	65		- 000	45	
Wards' estates	499	499			499	
Proceedings of other offices	58	56			56	
Single applications and petitions	1,288	3,263		***	1,283	-
Appeals and revision of orders	104	101	3		104	
Dirto to commissions	20	90			20	***
Miscellaneous	295	295	•••	•••	298	
Total	10,115	9,414	192	458	10,064	51

Rent-rolls.

4. In the compilation of the rent-rolls my object was not only to record the relations between landlord and tenant which I found existing, but to settle as far as possible the terms on which tenants with rights were to hold their land, and in this way to obviate disputes in future. If the people had been more litigious, it might have proved impossible to interfere generally and without the formal application of one of the parties in the interior administration of the village; but the arbitration of

* Trusferred to collectorate on close of settlement work.

the officers of the Settlement Department was generally accepted without objection, and both parties seemed willing to agree to an equitable adjustment of their differences. The method adopted, which by the way has been accepted with still greater readiness by the people of a country so different as Bundelkhand, was as follows: With the aid of inspection notes, and especially of estimates made at the time of inspection, suitable rates were proclaimed. The notices elicited all the various objections which with or without reason are so persistently made. In many cases the objections were good: notwithstanding all care mistakes had, been made; soil and irrigation entries were impugned; the suitableness of the rates was assailed; even where they were generally accepted it was urged that they were inapplicable to distant fields or to portions of the estate which near enough to the site had been rendered inaccessible by an unbridged rájbaha or by the railway, or were exposed to depredations of men or animals, or were injured by the shade of trees. Individuals would claim favourable rates, or on special grounds oppose enhancement. Such objections are not disposed of without much expenditure of time and trouble, but the outlay of both is greatly less when the estate as a whole is taken up, and a variety of separate cases is avoided. Expense is saved to both parties, and although perhaps the investigation with reference to each individual is less thorough than if each had brought his separate case, and this is by no means certain, there are many distinct advantages besides the saving in time and in money. The influence of the more reasonable members whether of the proprietary or cultivating bodies is brought to bear upon their neighbours, and while on the one hand a harsh claim that might be pressed against a few obnoxious individuals is abandoned when it must be maintained against a whole community, on the other, unfounded objections to fair demands are relinquished or at least modified under pressure from the more reasonable and peaceable members of the brotherhood. It may be hoped, therefore, that the advantages of the system followed more than counterbalanced the most obvious disadvantage that in the censent of a majority the real grievances of a small minority may have been overlooked.

5. Closely connected with the rent-rolls is the commutation of kind rents into money rents. The applications for commutation were numerous, and frequently one application concerned a large number of cultivators. Unfortunately, under the then existing law Act X. of 1859, such applications were admitted only during settlement. and the result was that many cultivators were induced to apply for money rents who would have done more wisely if they had waited. There can be little question that an industrious thrifty cultivator with a fair proportion of land under irrigation is more likely to prosper if he pays a fixed money rent than under the crop and kind rent system. He can improve his cultivation by increasing the proportion of the best crops without raising his rent, and he knows that the enhanced productiveness of his land owing to increased industry and expenditure of capital will not be at once shared by the landlord. He is thus induced to expend labour and money in the improvement of his cultivation, and if seasons be favourable he enriches himself. But if the cultivator be neither industrious nor thrifty, less advantage is likely to result to him from money rents, and the danger which he incurs is much greater. His highest aim is probably to keep his head above water, and if good seasons bring bumper harvests, the extra profits are soon spent, and bad years or a fall in prices soon convince him of the disadvantages of the money rent system hitherto overlooked.

After many years of abnormally high prices, a large number of cultivators applied for money rents the more eagerly that they knew that, under the existing law, the time for such applications was quickly passing by. Instead of waiting as they might now do until their circumstances were such that they could hope to pay their way in unfavourable seasons and years of falling prices, they thought only of the advantages which they had recently lost and insisted on money rents being fixed for them. I had noticed the almost universal surrender in the Ganges valley of the money rents fixed under Mr. Martin's order, and was afraid that in the first season of difficulty

Commutation.

many of the applicants would be as ready to revert to crop and kind rents as they were then anxious to relinquish the old system; but it would have been impossible, even if the law had allowed it, to decide what tenants were suited by their character and circumstances for money rents, and what cultivators ought to be kept under the old system. A succession of indifferent seasons and a fall in prices have made money rents far less attractive than they appeared during settlement, and the relinquishment by a considerable number of cultivators of the money rents fixed for them at settlement has been one of the grounds for the belief which has been at times expressed that the assessments leaned somewhat towards severity.

The preparation of the administration papers.

6. In the preparation of the administration papers, special attention was devoted to the chapter setting forth the rights and privileges of cultivators, although the constitution of the proprietary body was not neglected. But as at Mr. Martin's settlement this record has been attested by proprietors alone, there was less to be amended in that portion of the record which stated the relations between the State and the proprietary body, and those among the proprietors themselves. Indeed, the only clause in this portion of the administration paper which, as far as my observation went, led to serious injustice, was that regarding the right of pre-emption, and in this respect it is very difficult to word the clause so that it cannot be made productive of injustice. The general tendency of the stipulation on the subject is to overlook the claims of race and relationship, and to study solely actual ownership in the thok or patti; and it has frequently happened that a member of the same clan and family has been prevented from purchasing the share of a kinsman in his ancestral village by the money-lending purchaser of yesterday who has obtained a footing in the patti of the seller.

But in the fourth chapter of the wajibularz the mistakes had been much more serious and had been productive of much injury to the cultivators. In the sharahnaqdi villages especially, which have already been mentioned in this report, and in which the rights of the proprietors had been limited by Mr. Thornton to a fixed percentage (generally 18 per cent.) on the Government revenue, the privileges of the cultivators had been clearly stated at Mr. Thornton's settlement, and had been maintained to the close of the period for which it lasted. In the administration papers of Mr. Martin's settlement, attested by the landlords alone, the old privileges were silently abrogated, and it was gravely recorded that men who had certainly for twenty years, and as far as can be ascertained for many generations, been sinking wells and planting trees had authority to do neither. The tenants went on planting in unhappy ignorance of the class legislation to which they had been subjected, until they found to their cost that our courts, civil and revenue, were ready to enforce the landlord-made regulations which had thus quietly been drawn up.

Restriction of tenants'

- 7. As has been already stated, there seems little reason to doubt that Mr. Thornton had gone as distinctly too far in favour of the tenants as his successor did in favour of the landlords, and no attempt was made to revive the extraordinary privileges which Mr. Thornton had created. I endeavoured with some success to induce the landlords to agree to that independence of the occupancy tenant in the land for which be paid rent or of which he held prescriptive right of occupancy, which he appears to have enjoyed long before the date of Mr. Thornton's settlement, and I set my face against those vague claims to cut wood of spontaneous growth outside his holding without the permission of the proprietors, to which the record of Mr. Thornton's settlement had given rise. In this way the occupancy tenant was ordinarily allowed to repair his house in the village, to dispose of the trees growing in his courtyard, to plant and cut trees in his occupancy holding. The claims of the tenants, on the other hand, to build houses on land not in their possession, to cut trees not planted by them on land for which they did not pay rent, to hold groves free of rent, were maintained only in the very exceptional cases in which the evidence of the right was clear.
- 8. In fixing rent for land under trees, dry rates were usually fixed for land that was almost universally capable of irrigation. The argument for this procedure, that

as Government had remitted the revenue on plantations, the landlord got as much from the lower rate as he would have received if the higher one had been shared by Government, was generally accepted as equitable, the more so that the landlord was guarded against all claims to reduction of rent within the period of settlement on account of injury to the crops caused by the plantations of his tenants. With the assertion, therefore, of the rights of tenants was combined the distinct limitation of their claims, with trifling exceptions, to the lands for which they paid rent,

In only one case, as far as I know, were the conditions of the wajibularz formally contested in the civil court. The circumstances are somewhat peculiar and are worthy of being stated as showing the true tactics of the money-lender. The village Chapár was cultivated by an ancient community who would no doubt have been declared zemindars at the beginning of our rule had the treasurer of the Landhaurah Raja not purchased the rights of the Sayyid overlord, which were deemed too shadowy to be maintained in other villages. But the Bania purchaser was more wealthy and astute, and obtained full proprietary rights. At settlement he cheerfully conceded the privileges which his Sayyid neighbours and long established communities were granting to their occupancy tenants. In this way he avoided all investigation at the time of settlement, and eventually obtained from the munsif of Muzaffarnagar a reversal of the stipulation in the wajibularz on the grounds that no sufficient investigation had preceded the compilation of the record, and that such a privilege, that of planting trees in an occupancy holding, was obviously opposed to proprietary rights. In 115 out of 420 estates the right of occupancy tenants to plant trees in their occupancy holdings was admitted, but in one of these the admission was afterwards cancelled by the civil court; in two estates the right was found not to exist, and in 303 there was no custom on the subject. These figures show that if in this respect I went as far as facts admitted, I did not altogether disregard oustom.

9. And it is in my opinion greatly to be regretted that the right of occupancy tenants to plant groves should still be left a question as to custom, which often comes to mean the ability of a landlord by force or chicanery to obtain some precedent in his favour. It was the opinion many years ago of a close and accurate observer, Colonel Sluman, who wrote on this subject with special reference to this neighbourhood, that "our Government during the thirty-five years that it had held the dominion of the upper Doab had prohibited the planting of mango groves while the old ones were fast disappearing." The views which were then represented to actuate the planter of trees are now no longer general, but the circumstance that people are now so ready to plant trees for their own convenience, pleasure, or profit, renders any other inducement unnecessary; and an addition to the revenue law to the effect that occupancy tenants might plant trees in their holdings would, I am convinced, be objected to mainly by the more grasping of the mushroom proprietors whom the mistakes of our administration have given so needlessly large a share in the landed property of this and adjoining districts. Indeed, the objection to tree-planting by tenants on the part of the old proprietary families seems to be chiefly due to an unhappy clause in the "Directions to Settlement Officers," which states the three indications of proprietary right to be "the digging of a well, the planting of a garden, and the location of a labourer." Such wholesale statements must be wrong with reference to many parts of an extensive territory like the North-West Provinces, and in no district in which I have served long enough to master the customs of the country has the exercise of the two first privileges been considered any proof of proprietary right, although they no doubt have been held to give a certain claim to engage in preference to outsiders for an ownerless estate. The third privilege has been frequently exercised by the heads of village communities in Muzaffarnagar, and when there are so many more obvious and more invariable proofs of proprietary right, it is to be regretted that so mischievous a clause should have found its way into a work which has so many claims to respect. A short section authorizing occupancy tenants to plant trees, and at the same time asserting the ownership in the land on the part of the proprietor, his right to undiminished rent, and a preferential

Necessity of legislating on the subject of groves.

claim to the trees in the event of arrears, or to purchase them in the case of sale, would greatly strengthen the position of the tenant without practically injuring that of the proprietor, and would do much towards securing that area of plantations which on many grounds is so desirable. Bit by bit we have introduced into Upper India an exaggerated idea of the rights of proprietors, which, new to the old families, has been most fully taken advantage of by recent purchasers, to the disadvantage of the people at large and to the injury of the country and of our administration.

Responsibility for offen-

10. Another point with reference to which the landlord-made law of the administration paper of the recent settlement had pressed hardly upon certain cultivators was the transfer to the heads of the cultivating communities of the responsibilities legally resting with the proprietors. At Mr. Thornton's settlement, in the villages in which the proprietors' rights had been reduced their responsibilities also were reduced, and the cultivating community to which the management of the estate was entrusted was held answerable for offences committed within the limits of the estate. In other villages in which the position of the proprietors was not materially affected, it was usual for the mukaddams or heads of the village community, who received an allowance in land or money in consideration of the help they furnished to the landlord, to undertake these responsibilities. When the settlement was revised and the landlords were permitted to control the compilation of the administration paper, they in many cases made the most of the opportunity that was offered to them by re-enacting the old responsibilities and at the same time depriving the mukaddams of the old remuneration. It was necessary, therefore, to relieve the heads of the cultivating communities from responsibilities which did not attach to them by law, and which they had never consented to undertake.

Manorial dues.

11. The administration papers were compiled under the old rules, and the instructions with reference to cesses were less explicit than they have since become. At first I endeavoured to record in complete detail the dues that were given to the zemindars by residents in the village, whether cultivators, village servants, or shopkeepers. But I soon found that the investigation would entail an enormous amount of additional labour, and that the moment details were mooted, disputes began. Cultivators would acknowledge that they paid dues in excess of their rent, Chamárs that they furnished shoes and irrigating bags, sweepers that they gave fowls and eggs, shepherds blankets, weavers thread and cloth; but amounts and numbers were hotly disputed, and even the most laborious investigation failed to produce a satisfactory result. In one large village the Telis lighted up the chaupals on the night of the Dewali, and this was acknowledged by both parties, but the claim of the Ját zemindars to a fixed number of seers of oil was hotly disputed; scores of witnesses were ready to appear on both sides, and such investigations which would have occasioned an immense amount of ill-will were given up, and in the majority of cases merely general entries, such as that the menial caste sperformed for the landlords the usual services, were recorded.

Absolute correctness would have necessitated a separate entry not only regarding each caste, but also with reference to almost every landlord. In many villages the old landlords received dues which were denied to recent purchasers; in some instances, indeed, the ex-proprietors received the old dues long after their proprietary rights had been alienated. But there was another reason which rendered minute detail unadvisable; the custom of paying dues is unquestionably dying out, and there is no object in Government attempting to stereotype customs which are much better left to depend upon the relations between the landlord and his dependents. In very few cases were the dues received from non-cultivators of much value. Those actually recorded in detail as given by non-cultivators are shown in the following abstract:—

Chaste. Mat			Per 1	59 Mahdis, Per Chapér,	78 M Musafia	13 Mahdls, urafjarnagar.	64 Maháls, Bhúkarheri.	hdls, .hdri.	71 Maháls, Jánsath.	hals, th.	104 X	104 Mahdle, Khdtauli.	59 B Bhúmal he	59 Maháls, Bhúmah Sambal- heruh.		Total.
	Mature of cess.	Articles given.	No. of villages.	Average value per village.	No. of villages	Average value per village.	No. of villages.	Average value per village.	No. of villages.	Average value per village.	No. of villages.	Average value per village.	No. of villages.	Average value per village.	No. of villages.	Average value per village.
Poe 10				Rs. & p.		Rs. s. p.		Ks. s. p.		Bs., s. p.		Rs. a. p.		Rs. s. p		Rs. s. p.
Banis   histili	Rer 100 jars of rab, jar of rab, he jar of rab khatti On weighing income, At Diwali	Money 4 chks. of rab Money Ditto	7::::	• : ; ; ;	: :::	9 : ; ;	; ; ; ⁷ 8		: : : :	÷ : : : : - 0	1:::		::"::	0 !! " !!		115 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Gadarla Fer house	i	Blankets	→ #	8 8 6 8 0 9	<b>3 7</b>	1 15 8	22	2 2 2 2 2 3 4 0 8 0 8 0	• :	• • •	2:	1 13 1	10 10	11 12 6 11 13 6 11 13 6	8 2 2	4 4 6 4 6 4 6
Chamár "house	:	Charsa	~ **	0 0 0 0	-:	9 8 1	8 :	7 :	a #3	20 0 20 0 20 4	= 6	46	<b>60 60</b>	4 6 0	2 8 8	0 & 104 8 8
	_	Weaving cloth with-	:	:		:	i	. 1	•	0 18 0	•	0 13 0	-	•	•	0
Julsha , kar	kargah	12 yards cloth Thread without pay-	::	::	: :	11	<b>-</b> :	0 4 0	i eo	: 0		# :*	: :	::	~ 2	0 7 0
Sweeper s house	99	Ř	!	i	1	:	=	8	-	. 20	•	0 4 0	-	0 #	9	0 1 7++
Telí mill	:	Be. 1	i	i	<b>~</b>	1 0 0	:	:	;		:	i	:	:	-	0
· · · · · ·		Total	10	:	2		ln	i	*	•	88	:	7	i	308	:
All castes Fees on	Fees on marriage of daughters	daughters	:	:	-	1 4 0	20	0 8 0	8	0 + 0	15	1 1 10	•	9 0	88	0 2 9 1 9 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

The only item of importance is that of Rs. 35 for weighing fees in one village of Bhúkarheri. Elsewhere, weighing fees are devoted to village purposes and do not form an item in the income of the zemindar.

Example of manorial dues.

12. Dues were most generally recorded in pargana Bhúkarheri, in which original Sayyid proprietors still hold much land, and in which ancient customs have been least interfered with. From this pargana I give the following list of contributions given to the Sambalherah estate when under the Court of Wards. I am inclined to think that less rather than more is received by a family under such circumstances, for a Government officer can less readily exercise that informal pressure which is so effective with defaulters:—

Kharif, per plough

- ... 1 bundle of chari.
  - } jali of bhúsah.
  - 1 Government seer of hemp.
  - 2 jars of canejuice.
  - 10 stalks of sugarcane.
    - plateful of sugar.
    - jali of uplab.

Ra bi per plongh

... l jali of bhúsa.

Per house— Sweeper

... 2 fowls.

Shepherd

. 2 goats and one blanket.

Chamárs ... i irrigating bag, 2 cartloads of grass, and labour for repair of house

Barbers, bhistis, &c., give their service when required.

But as has been remarked, the collection of manorial dues to such an extent is dying out, and they are paid chiefly to members of the old proprietary classes who still maintain friendly relations with their dependents.

Lambardars.

13. Notwithstanding the general orders of the Board, I felt myself justified in increasing the number of lambardars, more especially in villages owned by cultivating communities. At the recent settlement the instructions issued had been interpreted too literally, and the changes made were in some cases excessively unpopular. In one village particularly which may be taken as an extreme instance of the policy adopted, the number of lambardars had been reduced from five to two. This change was liable to numerous objections; one of the four biswa patis had been in some sort divided so as to make two equal thoks for the two lambardars; the new divisions were too large to be manageable; the jama of each was so large a sum that the lambardars by the receipt of the fees alone were elevated too much above the heads of their brethren. The whole village was in confusion, and constant strife had been the result of a too literal compliance with the Board's orders. The statement which follows shows to what extent the arrangements then made have now been modified. In comparison with 1841 the number of lambardars is now much smaller than it was, but since 1863 no less than 51 new lambardars have been appointed. This increase is owing in a great measure to the formation of new maháls on partition, and only occasional additions have been made to the number of lambardars on other grounds. In practice, the feelings of the people must be considered in matters of this kind, and there is unquestionably a very strong feeling against making the lambardar too powerful. For my own part I think that when the co-sharers are numerous, there should ordinarily be a lambardar for every Rs. 500 of revenue, and even in this district of high rents and assessment I would fix the limit at Rs. 1,000. Great care should be taken not only not to reduce the number of lambardars too rapidly, but to choose the right moment for doing so, and much harm is certain to be done by giving indiscriminate effect to orders which are intended only for general guidance.

## Abstract Statement of Lambardars.

		Numb	er of lam	bardars.	Deci	ease.	Incr	ease	
Number.	Pargana,	1841.	1863,	1873.	Upon 1841.	Upon 1863.	Upon 1841.	Upon 1863.	Remarks.
1	Púr Chapár	140	101	114	26		***	13	
	Pargana total	146	103	116	30	•••		13	
2	Musaffarnagar Revenue-free villages	166	126	129	37	•••	***	8	
	Pargana total	169	136	140			8	4	<b>,</b>
8	Bhúkarheri	101	90	91	10		•••	1	,
- <b>5</b>	Jauli Jánsath Khátauli	148 150	126 144	187 160	11	•••		11 16	
	Revenue-free villages	16	7	8	8		•••	1	[ 
	Pargana total	166	151	168	8		10	17	
6	Bhúmah Sambalherah	116	91	96	20	***	•41	5	
	Total of six parganas	891	678.	727	94	***		49	
	Total of revenue-free villages	25	19	21	4	<u></u>	8	2	
	Total of six parganas assessed and revenue-free.	} 846	697	748	98	•	•••	<i>5</i> 1	

14. In the arrangement of patwaris' circles a good deal of care and the result of much local experience were more or less wasted, for the work had to be done over again under the new system laid down by Act XIX. of 1873. The system under which I worked might well have been allowed a longer trial, for it had many advantages, and there seems to be no more unfairness in charging a uniform cess for the maintenance of agricultural records than in levying one for roads and schools. In the poorer districts, indeed, it is found that the old uniformity in the cess is still necessary, for the requisite funds can be obtained only by the invariable charge of the highest percentage allowed by the law upon every estate without regard to the amount of surplus; and the system of grading patwaris with reference to their efficiency rather than to the circles in which they worked had obvious advantages.

The objects which I studied in the arrangement of patwaris' circles were the establishment of circles of a manageable size, the fixation of fair salaries, and in the grading of the patwaris, the reward of efficiency and long and good service. With reference to the last point, sudden changes of system fall with peculiar harshness upon men who might have been rewarded with equal facility in another way had earlier intimation been given of the impending change.

The arrangements which were made are shown in the accompanying statemen t:-

Arrangement of patváris' circles.

Abstract Statement of Salaries of Patwdris.

			Ď.	•	61	61						
	Net aarings.		쿒	481	99	1,147 9						
				•	9	-		۰	ф			1 . 1
	egcjas		4	40	60	•	۰	00	2	110 000	•	•
	Gross savings.		R.	632	*** ***	1,619	178	721	190	65	2,697	4,910
	d ex- ure	· · · -	ď.	0 9	8	7 0	**	0	t	ep #4	10	38 6
	Excess of ex- popditure on income,		Re.	150 15	800	116	179 14.	2	247	077	947	1,316
	Total expendi- ture.		, e	8,144	4,178	7,380	8,588	3,528	4,680	8,156	14,958	272,272
	<u> </u>	Salaries.	첉	328	166	504	#1 HD 01	168	336	ŧ	756	1,460
	4th grade at Re. per annum.	Number.		<b>+</b>	61	9	•	Ø1		:	•	=
	108	Selaries.	Re.	916	979	996	\$	133	818	940	\$90°s	9,916
Expendings on salazibe.	brd grads at Rs. per annum,	Kumber.			•		₩.	•	Ф	хэ	•	£
KPEKDITURE		Salarios.	NA NA	3,160	3,640	4,800	\$,040	2,640	\$,120	0104	9,640	14,640
Ä	2nd grade at Rs. 130 per annum.	Namber.		=	si	\$	11	2	, <b>%</b>	11	2	#
		Salaries.	á	489	08.	1,169	700	9	929	9	1,304	9,486
	let grade at Ro. 144. per grans.	Number of patraris.		49	16)		10	•	•	•	=	:
	t of		ů d	0	Pt 0	6	3 10	0	Ø1 0+	•		
	Amount of fees levishie.		Ra.	8,636	4,842	9,447	4,188	4,178	\$,400	2,946		
				å	Ī	!	i	:	i	4		1
!	Pargana,			Pår Chapár	Museffernages	Total	Bhiltarheri	Jaull Iknach	Kbáteuli	Bhámah Sambalherah	Total	Ginesi Total
		-RadeT		12	agen M.		<u> </u>	.632	nal	<del></del>		
	넴	Manh		**			**	+	10.	•		

15. The number of records filed in the Coffector's office and prepared for the use of the patwaris was as follows:—

Number of records filed.

Name of	pargana.	ļ	Map.	Khasra.	Jama- bandi.	Khewat.	Wajibul-
Pür Chapár	55 villages 59 mahála	::}	165	177	177	177	177
Musaffardagar	··· { 64 villages 73 mahéla	. :::}	192	219	219	219	219
Bhúkarheri	60 villages 54 maháls	· :::}	150	j <b>e</b> 5	162	162	161
Khátavii	••• { 88 villages 104 mahâls	:::}	954	812	818	819	881
Bhúmah Sambalherah	{ 41 villages { 59 mabála	::}	126	177	177	137	17
Jauli Jánsath	- 63 villages	}	189	213	918	213	218
Total of six pargan	351 villages 420 maháis	· :::}	1,086	1,960	,1,960	1,200	1,90

16. The revision of the settlement of the Ganges Canal tract began on my return from privilege leave early in August, 1870, but little could be done until the cold weather. Munshi Gursaran Das came to the district as Settlement Deputy Collector in April, 1871, and remained at work up to the 16th January, 1875. I left the district on furlough on the 6th April, 1874, and returned to it for only a few days at the close of the year.

The revision of the settlement in this way occupied a settlement officer for three years and eight months and a Settlement Deputy Collector for three years and nine months.

17. The cost of settlement was as follows:-

Cost of settlement.

Duration of settlement

operations

						Rs.
1870-71	•••	•••	•••	•••	•••	80,095
1871-79	•••	•••	•••	•••	•••	87,389
1879-73	400	•••	•••	***	***	42,047
1878-74	•••	•••	•••	•••	•••	41,188
1874-75	•••	•••	•••	•••	•••	6,253
			Total	•••	•••	1,56,972

The heads under which the expenditure was incurred were-

Officers'	fixed estab-	Salaries of variable es- tablishment.	Muzkuris.	Travelling charges of officers.	Travelling charges of establishment.	Contingent charges.	WOLL	Pur- chase of in- stru- ments.	Stationery.	Total.
Rs. 62,857		Rs. a, p. 50,238 14 8	1	ı	_	Ra, a. p.		Rs. 818	Rs. a. p.	Rs. a. p.

The total cost of settlement was very considerable, being Rs. 275-14-0 per square mile of the total area of the tract, and amounting to more than one and a half year's value of the increment to the land revenue obtained by the revision.

But over and above the regular settlement of the upland watered by the Ganges Canal, a considerable number of more or less summary settlements were undertaken by the settlement officer and his establishment.

And latterly 45 villages in parganas Gordhanpur and Pur Chapar were settled annually in the manner described in the memorandum on the subject which forms appendix XIII. These summary settlements entailed the more or less thorough inspection of each estate once and often twice every year.

The khádir portions of parganas Bhúkarheri and Bhúmah Sambalherah were also carefully inspected in the cold weather of 1872-73, and alterations in the assessment were made on the basis of khasras compiled and tested with great care, as far as the soil and crop entries were concerned.

To the area settled on the upland, therefore, amounting to 364,657 acres, must in this way be added:

26,595 , in Gordhanpur.

3,310 , in Pur Chapár.

7,571 " in Bhákarheri.

21,059 " in Bhúmah Sambalherah,

Total 422,592 acres

Work of subordinate officers.

18. With the work done by Munshi Gursaran Das I was quite satisfied. Appeals were few and the result was favourable to the Deputy Collector; and I am confident that the bulk of his work, such as attestation, distribution of revenue, adjustment of rent-rolls, was performed laboriously and accurately, and that he endeavoured with success to do justice to all classes of the community. Ashfaq Husen, Sadr Munsarim, did good work throughout the settlement, and I feel the more bound to notice him that, owing to the fact that the Meerut Settlement Report was not completed by Mr. Forbes, no permanent record was made of his services with reference to that district, from which he came with the highest testimonials. And no less worthy of mention is Munshi Jai Singh Rai, Sharishtadar, who proved himself to be a thoroughly accurate, painstaking, and trustworthy official, upon whom as well as upon my present head-clerk, Pandit Jia Lal, has devolved no small amount of labour in connection with this report since settlement operations in the district were brought to a close.

ALAN CADELL,

Late Settlement Officer of Muzaffarnagar.

## APPENDICES.

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( iii )

APPRNDIX I.

: Abstract statement of the number of each easts in 1872 in the six purganas of the Musafarnagar district, the settlement of which has been revised.

			[	Hindus	•	M	USALMANS	.		١.
He.	Same of c	aste.	Men.	Women	Total.	Most.	Women	Total.	Grand total.	
1	Europeans	•••	,						7	
	Males	4								
	Females.	8						İ		Ì
•		7	•			ł	1			ŧ
					400		· '			
	Achiraj	***	66	57 167	123 868		•••		1#8- 8de-	
	Ahir Bidi	***	201 203	178	381	~· 14	. 5		400	
4	Barwa	•••	6	6	12				12	
•	Bahlim	***				176	100	276	275	
7	Bairagi	•••	116	48	164	**			164	ŀ
	Banjára	•••	966	673	1,639	36	85	71	1,710	ŀ
9	Beara	•••	116	98	214			•••	274	ŀ
10	Bisáti	***	59		118	90	17	46	169	
11	Bishnoi	•••	97	81	58	<b>***</b>	•••	m }	58	
12	Biloch	***	***	***		8	1	4	4	
18	Bhás	•••	806	215	<b>52</b> 1	11	9	20	841	
14	Bhatyara Bhashbasa	***	•••	257	 554	182	155	387	837 554	
15	Bharbhusja Brahman	•••	297	4,524	10,598	•••	***		10,598	1
36	Brahmachini	^-	6,064 2	2	10,000	•••	•••	•••	10,000	1.
J7 Ja	Bhangi	•••	4,076	8,664	7.740		•••		7,740	
76 79	Barhi	•••	2,288	1,615	8,698	808	849	657	4,556	
to	Chauhan	***	2,258	1,890	4,148	556	4	9	4,152	
91	Chinages	•••	•••			26	24	50	50	١
12	Chhipi	•••	144	135	279	9	5	14	298	l
<b>3</b> 8	Chamás	•••	<b>22</b> ,368	19,957	42,820		•••	•••	42;320	1
54	Darzi	•••	204	168	867	359	279	638	1,005	
<b>2</b> 5	Dakot	•••	177	128	. 805	•••		***	806	1
56	Dogar	<b></b>	7	6	13	7	7	14	97	ľ
\$7	Dhobi	•••	106	49	147	994	840	1,834 874	1,981	١
<b>#</b> 8	Fakir	•••	381	181	563	476	398 3,204	5,160	1,486 5,160	ľ
	Gara Gadarya	•••	2.591	3,274	4,865	9,956 <b>3</b> 5	75	150	5,100 5,015	ľ
	Gidhi	•••	2,051	***		29	20	49	40	
	Gorakba	•••			2	•••	•••		2	١
103	Gujr <b>áti</b>	***	87	29	66	;		<b>.</b>	de	1
34	Gújar		6,540	4,570	31,110	•••	•••		11,110	ŀ
<b>35</b>	Gosbáin	•••	149	82	224				224	ŀ
<b>,</b>	Ghosi		•••	•••	•••	110	108	218	218	ŀ
37	Hijre	•••	***			11	8	14	14.	F
<b>58</b>	Reri	•••	60	50	130				110	
•	Halwái	•••	•••			885	891	788	783 ·	ŀ
<b>60</b>	Ját	~	10,206	7,346	17,659	366	365 4	781	18,883 7	
<b>51</b>	Jukhi <b>ára</b> Jogi	•••	1 705	1,191	2,976	9 141	135	276	<b>5,252</b> .	ľ
62. 63.	Jogi Jogi <b>záda</b>		1,785		2,570	14	130	26	26	
14	Jhojha:	**			•••	8,247	2,263	5,510	8,510	1
15.	Juláha		548	481	1,029	5,286	4,655	9,941	10,910	Ļ
<b>66.</b>	Kharádi	}	•••			9	8	5.	. •	ŀ
17.	Khumm			•••	•••	39	89	78	78	ł
12	Káchhi	•••	5	7	19	***		•••	19.	Ι.
49	Káyeth	•••	184	181	258	•••			255	
IO.	Kashmiri	•••	400	887	707	1	•••	1	· ¥	1-
1.	Kalal Kambah	•••	400 244	165	787 409	•••	; •••	***	409	1
19.	Kambola Kumblir	•••	244	2,219	4, <b>6</b> 50	19		48	4619	ĺ.
13. 14	Kanjar	•••	184	117	251	11	2	13	264	ľ
ra Ta	Kanchan	•••				94	81	55	\$5	
56	Hosi	993·	15	22.	94	•••			94	
62	Knemi	-	39-	- 36-	- 44	- 685		} }	- 44	ŀ
58	Kunjra	***	•••			186	137	828	323	1

( iv )

APPENDIX I.

Abstract statement of the number of each caste in 1872 in the six parganas of the Muzaffarnagar district, the settlement of which has been revised—(concluded.)

				Hinnus.			MUSALMAN	· S.	
Νo	Name of caste.	•	Men.	Women.	Total.	Men.	Women.	Total.	Grand total
59	Koli		1		1	•••		***	1
60	Kuzegar	•••	· 15	12	27	29	25	54	81
61	Kahér	•••	4,631	4,316	8,947	•••	•••	•••	8,947
62	Khatri		87	84	171	•••	***	•••	171
53	Khatik	•••	506	475	981	•••		***	981
84	Lohár		447	817	764	597	548	1,140	1,904
85	Lodh	900	25	28	48	000		100	48.
68	Máli	•••	579	638	1,217	•••		***	1,217
67	Memár	***	. 66	53	119	2	•••	2	121
68	Mughal	•••	•••		100	152	156	808	308
69	Manihár		***		•••	99	87	186	186
70	Mallah	•••	17	8	25	38	25	58	83
71	Mulia	944	•••		•••	3	•••	2	2
72	Mahájan	•••	7,697	6,170	18,867	•••		***	13,867
78	Mahájan Reti	***	21	16	87	•••		•••	87
74	Mir <b>ási</b>	•••	•••		•••	250	228	488	488
75	Meo		•••		**	184	198	812	312
76	Mewáti	•••	17	16	83	***		***	83
77	Mochi	***	28	25	53	5	5	10	-
8	Nái		1,164	1,121	2,285	1,264	1,224	2,488	4,778
79	Naddáf		•••		•••	452	895	847	847
10	Naqqál		***		•••	8	2	5	5
31	Oar	•••	1		1	•••		•••	1
2	Path <b>án</b>	***	•••		•••	1,707	1,329	3,036	3,086
8	Pirzáda		•••			85	81	66	66
14	Patwe	•••	25	19	44	•••		•••	44
5	Pazáwagar	•••	•••	•••	•••	7	6	18	13
16	Piráhi	•••	•••		•••	86	32	68	68
7	Purbia		98	69	167	•••		100	167
18	Qassáb	•••	***			2,402	2,298	4,695	4,695
9	Rajput	•••	2,134	1,950	4,084	1,323	1,022	2,845	6,429
0	Rána	•••	•••			840	839	679	679
11	Rangrez	•••	•••		•••	422	408	835	825
2	Ráwa	•••	1,778	1,665	8,443		•••	•••	3,448
98	Rain	•••	•••	•••		26	90	46	46
74	Rod		2	2	4	40	30	70	74
5	Richhbande	•••	•••			15	11	26	26
6	Raidási		2	1	8	•••		•••	3
7	Rangsás	•••	***			15	18	28	20
98	86dh	•••	1	•••	1	•••	•••	•••	1
9	Sonár	•••	729	666	1,895	***	•••	•••	1,895
00	Sáni	***	5,917	4,629	10,546	•••	•••	***	10,546
01	Shutreshihi	•••	4	2	6	***		•••	6
02	Saiyad		***		•••	4,846	3,583	7,929	7,929
26	Saqqa	•••	•••	\	•••	1,080	850	1,930	1,930
04	Sikh	•••	.7		7	***		***	7
<b>0</b> 5	Shekh	•••			•••	3,916	8,449	7,865	7,365
06	Shekh Naqqarchi	•••	***		•••	226	187	418	418
07	Shorágar	•••	•••	••••	•••	10	8	18	18
08	Shafálgaz	•••	***		-, •••	24	24	48	48
09	Tawáif	***	•••	2	2	104	86	190	192
10	Taga	***	8,429	2,201	5,680	855	790	1,645	7,275
11	Tamoli	•••	53	41	94	•••	•••		94
12	Tirgar	•••	***		300	74	58	182	132
18	Thákur	•••	18	12	95	***	•••	***	25
14	Thathere	•••	50	28	78	***	•••	***	78
15	Teli  -	•••	***		•••	1,958	1,575	3,528	3,528
	Total	***	95,396	77,768	178,164	87,586	82,667	70,258	243,417

APPENDIX 11.

Statement showing tenure of cultivation.

			-Betes.							CULTIVATIO	CULTIVATION BY PROPRIETORS.	TORS.				
			ying es						<b>V</b>	BBA OULTIVATED	Arra oultivated by proprietors as euch.	A DUCH.				
	Name of pargans.	ırgana.	eacune be	1	At ea 113	Area under cultivation.	ra tion.	Average area per head.	area ead.		Rent.		Arerage rent per head.	rent per 1d.	Average rate per acre.	rate per e.
уватрет.		·	Number of r	Number of 5	Resident.	Von-resi- dent.	Total.	Resident	Non-resi- den t.	Besident.	Non-resident.	Total.	Besident.	Non-resident.	Resident.	Non-resi- dent.
2								₹	r. P.	Rs. s. p	Rs. a, p.	Rs. s. p.	Rs.	ei ei	Rs. a. p.	Rs. s. p.
~	Per Chapar	:	-	67 1,650	15,385	2,232	17,617	2	82	67,546 0 6	6,357 10 0	63,603 10 6	<b>8</b>	о. Ф	3 11 6	\$ 13 7
•	Muzaffarnagar	:	i	936	6,386	8,210	8,596	<b>a</b>	<b>6</b>	30,256 13 6	5,387 8 6	25,594 0 0	8	ф	3 2 11	• •
•	Bhúkarheri	i	i	63 676	6,294	719	7,013	21	0 28	20,160 14 0	8 11 9	21,006 9 9	98	•	e0 e0	1 2 10
•	Jauli Jénsath	:	i	71 360	6,370	i	6,370	17-2-31	:	9,010 11 0	:	9 010 11 0	25-0-6	i	9	į
*	Khátaulí	•	 :	97 831	7,346	1,137	8,483	01	0 83	28,606 0 0	3,151 8 9	81,767 8 9	8	<b>16</b>	3 14 4	\$ 18 <b>¢</b>
•	Bhúmsh Sambalhersh			59 276	4,309	1,347	5,656	9	8	7,950 11 6	8,175 5 8	10,426 0 9	50	37 19 6	1 10 11	60 10
·		Total	404	4,629	46,090	7,645	53,735	=	22	1,42,631 1 6	18,867 7 3	1,61,898 8 9	3	84 18 10	- 6	

( iv )

A P P E N D I X II.
Statement showing tenure of cultivation—(continued).

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APPENDIX 11.

· Statement showing tenure of cultivation—(continued).

Area under culticution.         Area gas area         Resident.         Non-resident.         Rout.         Abstrage rate for resident.         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area         Acrage area <t< th=""><th></th><th></th><th>-estates.</th><th></th><th></th><th></th><th></th><th></th><th></th><th>CULTIVATION</th><th>CULTIVATION BY PROPRIETORS.</th><th>ORB.</th><th></th><th></th><th>٠,</th></t<>			-estates.							CULTIVATION	CULTIVATION BY PROPRIETORS.	ORB.			٠,
Total   Accade area   Resident   Rom-resident   Total   Resident   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Accade area   Acc	!	!	!	- 1			V	REA UNE	JER GULTI	FATION OF PROPRIE	STOR AS IN THE CAP.	OITE OF TRNARE	8-AT-WILE.		
Total   Total   Mon-resident   Total   Resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident   Mon-resident					Area wa	der cultio	rtion.	Arerog per h	e area cad	·	Rent.		Average rent per head.	Average	Average rale per acre,
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49       812       3       0       14       2,510       9       6       105       15       0       2,620       8       6       9       15          154       3       3       10       1,329       10       6       204       1       6       1,526       19       0       11       14       1          164       3       3       16       460       8       9       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       8       9       16       9       16       9       16       9       16       9       16       9       16       16       16       16       16       16       9       16       16       16       16       16       16       16       16       16       16       16       16       16										đ	Ä	æi	ď	Rs. a. p.	Rs. a. p.
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Statement showing tenure of cultivation—(continued).

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Púr Chapár   1,650   16,939   2,903   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,800   1,		H	49						
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Pár Chapár   Mame ni pargasa.   Pár Chapár   1,450   16,932     Masaffarbagar     67   1,450   16,932     Bhúkarbari     71   340   6,756     Khátauli     93   7,228     Bhúmah Sambalhereb     97   376   6,452     Total     404   4,639   49,686	-		800	Ē	00			8	
Púr Chapér			<u>~</u>	<u></u>		•	1,1	<b>30</b>	6,7
Púr Chapár			933	928	156	,773	204	459	999
Name of pargans.  Pur Chapter 67  Ebükarberi 65  Ebükarberi 67  Ebükarberi 65  Ebükarberi 65  Ebükarberi 65  Ebükarberi 65  Ebümah Sambalherah 65  Total 664	-								
Name of pargans.  Pur Chapter 67  Ebükarberi 65  Ebükarberi 67  Ebükarberi 65  Ebükarberi 65  Ebükarberi 65  Ebükarberi 65  Ebümah Sambalherah 65  Total 664			1,650	200	576	360	2	276	629
Púr Chapér		<u> </u>		-			P-		<u> </u>
Pur Chapér  Bhúkarbari  Lauli Jánakh  Ehémah Sambalherah  Total	Number of revenue paying estates.				···	-	<u> </u>		\$
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APPENDIX II.

Statement showing tenure of aultivation—(continued).

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		Average rate per ocre.	Non-resi- dent.	Rs. a. p.	\$ 13	4		8 10 11	•	en en	9
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		Average rent per head.	Resident.	Re.	80	8	\$	\$	39 10	22	87 13
		4	Resi				**				<u> </u>
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SNAN			F .	Ä	40,907	87,508	86,	1,06,580	96,	68	4,70,
T.T				Å	•	**	•	•	•	•	•
ANC	٠	4	niden	a	6,590 12	φ <b>m</b>	<b>.</b>	17,999 12	0	11,008 12	76,946 8
CULTIVATION BY OCCUPANCY TENANTS.	HBREDITARE.	Rent	Non-resident.	B.	6,59	12,932	14,121	17,98	18,993	11,00	76,94
8Y O	H BR S.			<u> </u>	•					•	•
ON E	-		描	å	•		•	•	•		01
ATI			Resident.	Bs. a.	34,316	74,575 14	73,180	89,180	82,016	41,638 14	3,94,10\$ 10
LTIV			H		•						6,8
CO	•	<b>8</b> .	Mon-resi- dent.	si,	88	9	18	2	28	8 · 10	12
		Average area per head.	- isex-noW	1 1 d	-	••	-	~	•	•	-
		Aver	Besident.	٠	•	1	15	=	•	==	2
			-:	<u> </u>		137	.50	983	=======================================	29	8
	Area under cultivation.		Total.		13,641	21,1	26,7	21,5	\$19,0\$	19,455	1 8
			dent.		2,305	3,124	4,541	4,728	8,253	4,486	\$2,437
			Non-resi-	<u> </u>							<del>;</del>
			Rezident.		1,336	18,013	22,209	98,255	17,259	14,969	10,701
			l	 							
		-avitiua-	to reducid		1,458	3,706	1,741	2,473	2,430	1,647	12,425
*#24114	Am Ros	ed onno	Namber of re	<u> </u>	67	67	8	2	26	69	
					:	 :	:	:	- <del></del>	<u>:</u>	!
					•	•	•	•	ě	•	
		á			•	ŧ	ŧ	ŧ	:	2	
		Name of pargame.			ŧ	*	*	*	Ť	45 4	Total
		9 of 1				h ₂				balbe	
		N en			pár	rnaga	10ri	nsath	ope <b>t</b>	<b>88</b> I	
					fér Chapér	Muzaffarnagar	Bbűkarberi	Jauli Jángath	Khátauli	Bhúmah Sembalherab	
					<u> </u>	ž	<b>4</b>	<u>.</u>	ם	<b></b>	
			Number,		-	•	•	•	10	•	
			•	3							

APPENDIX II.

Statement showing tenure of cultivation—(continued).

		per	Non-resi- dent,	<b>4</b>	1 1	<b>6</b>	~	9	6 10	14 8	•
. !		ge rate acre.		Rs.	•	eo	••	••	*	64	
		Average rate per acre.	Resident,	Rs. a. F.	2 10 7	© 61	2 11 1	2 15 7	- +	2 12 3	8 18 6
	CAND.	per	Non-resi- dent,	å							
	LHER 1	Average rent per head.	i		1	•	17 11 8	•	81 18 10	16 11 10	•
	NT3 OF O	Avera	Resident.	Rs.	15	38	17	81	<b>~</b>	16	*
	T TBV			غه	c 6	9	0	0	60	0	6 ::
NANTS.	OCCUPANO		Total,	Rs. g.	6,032	10,090 12	6,425	19,661	9,422	7,884	58,406 11
ICY TE	THO ARE		lent,	Ä	0 81	0	*	9	•	. o. ,	
OCCUPAN	PERSONS W	Read.	Non-resident,	Rs. sp.	1,178 13	3,325	1,182	8;6,8	1,697	2,201	12,788
BY (	ILL BT			۵	0	•	<u> </u>	••	•	•	9
CULTIVATION BY OCCUPANCY TENANTS.	in the capacity of temant3-at-will by persons who are occupancy tenants of other lawd.		Resident,	Rs. s.	4,853 13	6,765 9	4,243 0	16,303	7,825	6,682	45,078 4
COL	CITY OF THE	e area end.	Mon-resi- dent.	r.	- 60	0	1 19		91 0	£6 80	
	HE CAPA(	Average area per hend.	Resident.	Ą	10	•	မ	2	<b>10</b>	10	•
		ation.	Total.		2,303	4,261	1,949	6,430	2, 199	2,817	19,939
	Авва ивср	Area under cultivation.	Mon-resi- dent.		476	929	872	126	36	192	8,870
		Area un	Resident.		1,827	3,832	1,577	5,459	1,838	9,056	16,089
		cultiva-	Mumber of tors.		00+	176	306	623	431	5	3,007
tates.	se Zaiy	venue pa	Number of re		57	67	8	2	6	69	70,
					:	:	:	i	:	:	<u> </u>
		pargana.			:	ŧ	:	i	1.	rah	Total
		Name of pargana.	·		Pár Chapár	Muzastarnagar	Bhúkarheri	Jauli Jánsath	Khátaulí	Bhúmah Sambalberah	
			Namber.					•	•	•	•

APPENDIX 11.

Statement showing tenure of cultivation—(continued).

4			"B91W						CUI	CTIVATION BY	CULTIVATION BY OCCUPANCY TENANTS.	ENANTS.				
			ying cel								Toral.					
	Name of pargana.	EDS.	saenne de		Area un	Area under cultivation.	tion.	Average area per head.	e area ead.		Rent.		Average rent per head.	rent per 14.	Average rate per urre.	rate per
Number.			Number of re	Cultivatora.	Resident.	Non-resi- dent.	Total.	Reaident.	Mon resi- dent,	Resident.	Non-resident.	Total.	Resident.	Non-resi- dent.	Resident.	Non-resi- dent.
					<u> </u>			A. r	e e	Rs. s. p.	Rs. a. p.	Rs. a. p.	Rs. s.	ė.	Rs. s. p.	Rs. a. p.
~	Púr Chapár	i	57.	1,438	13,163	18,78	15,944	=======================================	0 14	89,170 1 8	7,769 9 0	46,939 10 3	82 10		2 15 7	2 12 8
•	Musaffarnagar	: •	67	\$,706	\$1,345	4,063	26,398	•	8 -	81341 8 8	16,257 9 3	97,599 1 6	98	-	3 13 0	<b>4</b>
•	Bhúkarheri	:	rð 80	1,741	23,786	4,913	28,699	16	1 87	76,428 1 6	15,303 14 0	91,726 15 6	11 69	•	60 40	07 1 8
4	Jauli Jánsath	:	2	\$,473	28,714	6,699	34,413	13	3 26	1,05,483 5 9	20,648 8 0	1,26,131 6 9	61 0		g 01 &	9 ~
10	Khátaulí	:		2,420	19,097	3,614	111,22	•	1 22	89,841 6 9	15,590 6 0	1,06,481 11 9	6.	-	4 11 8	4 20
•	Bhúmah Sambalherah	:	65	1,647	17,025	5,247	<b>32,27</b> 2	13	<b>*</b>	47,616 7 0	13,910 4 3	60,726 11 8	86 13 11	111	<b>2</b> 12 8	8 8 10
	£	Total	404	12,495 123,130		26,307	149,437	2	7	4,39,776 14 6	88,779 19 6	6,28,555 11 0	<b>5</b> 7	2 11	8 8	9 10 10

APPENDIX II.

Statement showing tenure of cultivation—(continued).

			<del></del>									
		pd.	Non-resi- dent.	ğ	0	13 1		<b>.</b>	3 10 5	•	<b>8</b> 10 6	
		Average rate per ecre.		<b>1</b> 0.0	-	<u> </u>	••				!	
		lverag	Resident.	ď	<b>63</b>	15 11	2 13 4	2 15 2	3 15 11	9 10	\$ 11 2	
			<u>'                                     </u>	Rs.	*	•	*	*	es		•	
		Average rent per head.		Non-resi- deat.	å							
					d	•	6 11	15 8	9 10	1 11	16 1	84 7 10
		Acerag	Resident.	Rs.	8	8	24 15	82	5	<b>\$0 16</b>	**	
				ė,	•	•	•	•	••	•	0	
			<b>i</b>	eđ	73 4	34 0	e 2	92	0	16,645 13	<b>9</b>	
CULTIVATION BY TENANTS-AT-WILL.	2		Total.	Re.	13,673	53,937	29,669	25,125	40,827	15,64	1,64,277 &	
rs-A7	-T-W1		a t	بغ	0	**	•	••	•	•	•	
NAN	CANTB.	Rens.	Non-resident.	Rs. s.	7,887 6	11 618,81	11,503 0	7,864 19	10,551 14	8,041 4	68,118 0	
Y TE	BI TEN	14	Non-	#	7,	18,	),[1	2.	10,	8	<b>8</b>	
ON B	CULTIVATION BY TENANTS-AT-WILL			Á	9	9	0	8	•	•		
VATI	LTIVA		Besident	Rs. a.	11,235 14	91,617	18,166	17,260	1 912	7,604 9	1,06,169 6	
ULTI	Cu		Be	<b>*</b>	ű	21,0	18,	17,	30,275	2,	1,06,1	
)	•	area 1d.	Non-resi- dent.	ų	22	16	4	60	156	8	۰	
		Average area per head.		A. r.	8	•	<b>~</b>	-	•	•	•	
		4 4	Resident,					2				
		•ation.	Total.		7,350	11,691	10,088	9,206	10,718	8,367	61,419	
		Ares under cultivation.	Jaon-real- Jaob		8,878	4,468	8,674	3,853	2,892	3,659	81,618	
		Ares w	Resident.		8,477	7,823	6,414	5,859	7,826	4,708	36,500	
			Cultivators.		986	1,646	1,189	878	1,818	7.67	897,8	
.motal	sə Zuiç	васпие ря	Number of r		57	5		7.	5	8	\$	
<del></del>					i	i	i	i	ŧ	i	!	
		ai.										
		Name of pargana.			•	ŧ	•	:	I	: -4	Total	
		a of p								alhers	• •	
		Nam			par	Tagar.	Ę	Desth.		<b>Se</b> to b		
					Pár Chapár	M usaffarnagar	Bhákarberi	Jauli Jénseth	Khátauli	Bhúmsh Sambalhersh		
			<u> </u>					<del></del>		<del></del>		
			Number.		-	•	•	•	•	•		

APPENDIX II.

Statement showing tenure of cultivation—(concluded).

			estates.							TU	TUTAL AREA.					
			Saiye				To	TAL AREA	CULTIVA	ted by Proprinto	ar, occupancy tr	Total area cultivated rt proprirtors, occupancy terants, and trnants-at-will.	8-AT-WILL.			
	Name of pargana.	ergada.	елеппе Бе		drea w	drea under cultivation.	ation.	Average area per head.	e area tad.		Rent		Average rent per head.	d. per	Averag	Averag rate per acre.
Camper.			I to redmuN	Cultivators.	Resident.	Non-resi- dent.	Total.	Resident.	· last-no2 •tnsb	Resident	Non-resident,	Total,	Resident,	Non-resident.	Resident.	Non-resident.
								A. r	ů ů	Rs. s. p.	Rs. a. p.	Rs. s. p.	Re s.	ب	Rs. a. p.	fis. sa
~	Pur Chapár	:		4,024	33,472	8,957	48,429	10	3 26	1,12,654 16 3	22,194 15 0	1,34,849 14 3	8	•	\$ 6 10	e4
•	Muzaffarnagar	:		5,288	35,816	10,79\$	46,598	<b>60</b>	o.	1,25,506 14 9	84,214 10 0	1,59,721 8 9	30	~	e 80 67	
•	Bhúkarheri	ï	89	3,506	36,956	9,315	46,271	13	0 13	1,16,880 9 3	27,697 10 0	1,44.078 3 3		•	er 60	3 15
•	Jauli Jénsath	:	<u></u>	8,711	41,839	9,052	168,03	13	2 13	1,83,237 9 6	28,512 15 8	1,61,750 8 9	43 9	•	3 2 7	<i>s</i>
20	Khátsuli	:	94	4,563	34,528	7,693	42,281	•	0 [	1,49 698 11 6	29,379 8 6	1,79,078 4 0	8 68		† 9 †	
•	Bhúmah Sambalherah	rah	69	2,670	26,185	10,414	36,599	13	30	62,839 10 6	24,714 10 8	8,554 4 9	32 13	œ	<b>6</b> 1	• •
		Total	404	23,762	208,286	56 .22 22 38	86€,509	Ħ	<b>8</b> ,	7,00,318 6 9	1,66,714 6 6	8,67,032 11 9	88 4	7 10	10 10	2 15

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APPENDIX IIA.

Abstract statement of cultivating holdings.

	CULTIVATIO	CULTIVATION BY TEMANTS-AT-WILL	9-47-WILE		TOTAL	ļ 	
	Namber.	Amount of land held.	Average area per head.	Number,	Amount of land held.	Average area per bead.	2 2
	92 7 20 93 64 93 65	10,918 11,785 7,850	48 % 9 % % 10 % %	4,429 6,468 4,024	34,139 41,103 42,429	P = 0	7-3
	67 (0) (4)	<del>**</del>	0 40				
•	400	\$,808	6 8 1				
	1,699	10,465	:				
	4,121 3,322 1,646	#6,515 15,982 11,691	4 0 0 53 4 0 10 4 0 16	6,179	89,990 43,917 46,698	**************************************	# ° 2
By proprietors in the capacity of tenants-at- will,	126	487	•			<u> </u>	
occupancy tenants in the capacity of	176	4,261	0 4 9				
tenanta-al-will. Total	2,664	16,439	:		<b>-</b>	_	

.

9 19 0 11 0 32						1 84 0 16 2 13						1 39					
2 - 5					-	<b>7</b> 0 50						G 40 G					
41,460 46,864 46,271					_	48,106 48,763 60,391						40,506 40,370 42,221					
8,568 6,628 6,628						3,326 7,993 3,711			_			4,161 7,621 4,563					
37			9	1 19		1 87			37	=	<u></u> 	486			•	16	<u> </u>
10 4 8 1 1 1 1 1			<b>64</b>	•	÷	13 1			<b>89</b>	101	:	8 8 8			8	9	į
25,956 14,0×7 10,0×8			. 194	1,919	12,191	87,149 17,071 9,206	<del></del>		272	6,430	15,882	22,883 12,217 10,718			229	2,199	13,146
2,491 3,838 1,189			79	306	1,549	2,791 4,051 878	-		89	623	1,568	2,724 8,168 1,818			101	481	1,844
12 2 0 6 1 36 1 5 1 18	9 0 9	•	of tenants-at-	e capacity of	Total	12 1 18 7 1 0 11 1 10	<b>3</b> 3 14		of tenants-at-	the capacity of	Total	86 0 0 0 0 0 0 0 0 0 0 0	-	1.	of tenants-at-	the capacity of	Total
9,743 26,071 26,750	317	27,067	in the capacity	occupancy tenants in the	į	8,870 25,050 27,983	156	28,189	n the capacity	ants in	į	8,833 19,666 20,512	080	20,692	n the capacity		FIII.
764 8.077 1,741	63	1,604	By proprietors in the capacity of tenants-at-will.	By occupancy ten		818 8,461 8,473	99	2,528	By proprietors in the capacity of will.	By occupancy ten		739 8,258 2,420	63	2,478	By proprietors in the capacity	Will. By occupancy tenants in	tenants-at-will.
19 9 - 26 0 - 26 0 - 26	y of occupancy	Total				31 3 28 13 3 3 9 17 29 31	y of occupancy	Total				11 0 8 10 0 33	y of occupancy	Total		•	
6,768 6,706 7,013	in the capacit					7,087 6,642 6,370	n the capacity					7,790 8,588 8,483	n the capacity				
203 7 13 6 7 6	By proprietor's in the capacity of occupancy	Venanta.				229 481 360	By proprietors in the capacity of occupancy	tenants.				705 1,107 831	By proprietors in the capacity of occupancy	tenants.			
Mr. Thornton's settlement ,, Martin's ditto Present revision	, щ					Mr. Thornton's settlement ". Martin's ditto Present revision						Mr. Thornton's settlement ". Martin's ditto Present revision					
	HABE	i A M D I	18			· 'H	LVSN	rı jy	ovr			<del></del>	orr.	ATAH.	H		

( xvi )

APPENDIX IIA.

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cultivating
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stakment
Abstract

		CULTIVAL	CULTIVATION BY PROPRIETORS.	IBTORS.	Curr									
		Namber,	Amount of land held,	Average area per head.	Nam									
<b>i</b> 'T'	Mr. Thornton's settlement, "Martin's ditto Present revision	1986 1986 1986	3747 7,811 5,656	22 3 16 21 3 18 20 1 39	2,411 1,647	18,508	7 2 24	9,103	34,899	11 4	8 5,872	41.215	13	6 C
82A7		By proprietors in the capacity of occupancy	in the capacity	of occupancy	•	97	17 2 0							
Taniv		repands.		Total	1,656	19,596	     					-		
3 жанд					By proprietors will.	In the expacity	proprietors in the capacity of tenants-at-will.	\$	164	9	<u> </u>			
BE	-				By occupancy tentants		in the capacity of	471	18,8	60 VB	87			
	<del></del>				PEDERICA-PE-WINE	.w.m.	Total	1,844	11,348	i				
	Mr. Thornton's cettlement, " Marcin's ditto Present revision	8,099 4,735 4,639	47,965 88,807 68,786	16 1'34 11 0 14 11 \$ 17	3,327 36,503 13,435	41,794	19 9 6 7 1 20 10 1 27	17,999 20,156 6,708	136 840 85,986 67,419	# H 40	15 24,425 3 40,893 9 23,769	264,509	•• # E	1 18 0 20 1 18
		By proprietors in the capacity of occupancy	n the capacity	of occupancy	450	1,625	4 0 1							
7774		teopnia.		Total	12,876	181,303	   		-					
T.					By proprietors	in the capaci	proprietors in the capacity of tenants-at-will.	789	2,098	0 8	<u>^-</u> -		<del></del>	
					Ву оссирансу	tenants in th	occupancy tenants in the capacity of		19,069	8 8 9	69			
				_	-14-11-10-10-10-10-10-10-10-10-10-10-10-10-		Total	10,849	79.471			_	-	

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## APPENDIX III.

MR. CAVENDISH'S notes regarding villages in Pur Chapur, compared with the statistics of the settlement just completed.

STATISTICS OF 1825.

STATISTICS OF 1872.

1. The first village Barlah, pargana Nurnagar, contains about 4,462 bigahs of 2,916 yards, of which 3,874 are cultivated or prepared for culture and 18 fallow.

Barlah in the dismemberment of the old Nurnagar pargana was included in Pur Chapar, to which it naturally belongs, as it is situated about half-way between the two towns on the northern and southern boundaries, from which the pargana takes its name. The areas given by Mr. Cavendish are in the district bigah somewhat less than half an acre, which, if a new and clumsy land measure had not been devised for official use in certain districts and in the Canal Department, would have been almost universal in the Upper Duáb.

The areas in acres for 1825 and 1872 are as follows:—

			1825.	1872.
Cultivated	***		1,980	1,902
· Culturable	•••	***	9	145
Barren waste	***	•••	263	287
			2,272	2,284

Notwithstanding the construction of a metalled road and of two rajbahas through the village lands, the area of barren waste has been lessened. The culturable waste, on the other hand, has increased, partly owing to the multiplication of groves, almost unknown before in this tract, and partly owing to the inclusion in this area of some not very profitable land, from which earth has been excavated for the rajbahas.

2. It is stated to be possessed by 215 cultivating zemindars, of a race denominated Tagas, in whom Mr. Cavendish appears to consider the absolute property of the soil to be vested.

The resident Tagas of the Bikwan got do not claim an earlier settlement in the district than in the eleventh century, when they migrated from Bikánir. Their village, like the rest of the pargana, came into the bands of the Sayyids in the later days of the empire; but the hold of the Sayyids was never very firm, and their rights, as far as this estate is concerned, were held to have been cancelled by the subsequent usurpation of the Gujar Raja of Landhaurah. On the Rája's death in 1813, the village was settled with the village community. The village had afterwards to fight against the farm of Captain Shekh Kallan (see Selections from Revenue

- 3. They are divided into five pattis or branches, all descended from the same ancestors, Hindus, though now some profees the Meslem faith, with little apparent variety in religious belief or practice.
- 4. Inheritance is stated to be confined to sons who share equally if of the same mother; but if of different mothers, then by a double partition, equal aggregate shares being first given to each family, then equal portions of these shares to the sons of each; females excepting as being entitled to a maintenance, are said to have no right of inheritance.

- 5. The share to which each parcener is entitled is said to be recorded by the village Bhat or Bard.
- 6. The quantity of land occupied by each parcener appears to depend on his means of cultivating it. The actual state of possession differs greatly from the distribution of property recognized as the hereditary right of the parties, which is detailed minutely to the 160,000th part of the bigah. Each of the pattis are stated to own four biswas, but the quantity of land occupied by each is not quite equal, and it appears to be doubtful whether either party be entitled to claim a fresh partition.
- 7. The parceners who are absent in service, and have consequently no lands, will, it is said, obtain a share on their return.

Records of 1873, page 269), and until the canal was opened the unity and resources of the community must have been severely tested by high assessments and constantly recurring droughts.

There are now 320 owners, all Tagas except two Banias, who own 11 acres; 3 Beorahs, owning 24 acres, 4 sonars, 20 acres; 12 Brahmans, 28 acres. Mahomedan Tagas own 201 acres of the land in two pattis. The ancestors of the Mahomedans were converted in Humayun's time, but in this as in very many nau-Muslim communities, any very decided Mahomedanism is of quite recent date, and in these communities Islam may certainly boast of a revival.

The rules of inheritance continue the same as far as the Hindus are concerned, the Mahomedan members of the community, too, still follow the ancient custom, but they acknowledge that the first female who sues for her share must eventually get it. When this happens the Mahomedan patti cannot be expected to hold together, and no custom, however ancient, is allowed by our courts to overrule the Mahomedan law. It seems almost inevitable that the provision of the law opposed to all ancient customs will contribute as much to the ruin of these communities as it unquestionably has done to the decay of the once great Sayyid houses in this district.

The entries are still made here as elsewhere, but the Bhat's pushtak has lost its old authority.

Questions of ownership have now been finally settled, and it would be impossible now-a-days to urge claims derived from remote ancestors.

Absentees obtain according to village custom their shares on their return without any account of profit and loss. But now-a-days when profits are invariable, the old class of Mafrur is unknown. A man away from the village in service retains his share, which is no longer a mere

8. The malguzars or lambardars, that is, the managers of the village from whom the revenue is received, are the headmen of the pattis.

The office of lambardar appears to be

Note.—The people are said to have disused the term mukaddam, because they think the English consider a person so designated to be a headman, having no proprietary rights. generally inherited by the eldest son; but the right of succession is not

absolute, being set aside in case of incapacity. The lambardars appear to be by no means distinguished by the extent of the parcenary share of which they are the acknowledged proprietors. It is said that they used to receive from the mukarraridar five per cent. on the jama for managing the village, besides having their garden lands free and receiving presents. Cavendish appears to think that the malikana (meaning by the term the perquisites of management) should be fixed by Government, but levied by the managers as rent. He distinguishes it from the zemindari rasúm or proprietary allowance, generally five per cent., receivable by zemindars, whether in or out of the management from the cultivators of other classes. The malikana, he observes, used under native Governments to be collected by the Government officers, and paid to managers out of the treasury. This plan Mr. Fortescue is said to have ordered to be followed in Delhi, though there the word malikana was not known. In many villages, he observes, the headmen have made themselves farmers, that is levying the full Government share of the produce, and setting aside the right of their parceners to have a proportionate distribution of the assessed jama, they have taken to themselves all the profit and loss on the engage ment. This has also occurred in Delhi, where the mukaddams have been supported by powerful men.

9. In the village in question, the weight of the Government assessment appears to have levelled all distinctions. Even the deduction of 10 per cent. nominally made

right to cultivate, but a distinct property bringing certain profits.

The term mukaddam is now only applied to the chief men of a non-proprietary community. The lambardars of this village are called Chaudhris, a title not very common in this neighbourhood, Padhán, being generally used among Játs and Gújars.

The custom of succession remains theoretically unchanged, but the right of the many to a voice in the choice of their representatives has been admitted in Barlah as elsewhere since 1825. The lambardars now collect the five per cent. allowance fixed by Government. Even now they do not in all villages get the allowance, but the headmen of a Hindu village on the high road to Hardwar have many expenses.

This appears to have been the case generally in this neighbourhood, and it tended to the development of a peculiarly strong occupancy title, which is now how-

from the estimated assets has gone merely to lower the rate at which land is occupied by the cultivators of all classes. With the exception of some trifling perquisites to be noticed thereafter, the managers (lambardars) appear to derive little or no avowed advantage from the post, excepting what they can contrive to embezzle under the name of village expenses, and neither they nor their coparceners receive any zemindari rasum from the other cultivators. Some of these are said to have resided in the village for some hundred years, and to have cultivated the lands occupied by them for 30 or 50 years, and who are therefore included by Mr. Cavendish in the class of maurusi or hereditary ryots (asamis). They are said to possess no rights beyond the year for which they commence the cultivation, having no pattahs, and the zemindars being entitled to oust them at pleasure on the expiration of the year. But, as above observed, all hold at the same rates, the Government demand, leaving no rent properly so called to any individual.

10. Although however, a high assessment has thus broken down distinctions of rank, it would appear from the statements prepared by the native officers, the zemindars, and Mr. Cavendish, to be his opinion and (seemingly) the general sentiment of the people, that the managers are entitled in the adjustment of their rent to be distinguished from their brethren and from non-proprietary ryots, and that the village proprietors should have better terms than the ryots. Thus the kanungos state, the Government share from land cultivated by the lambardars at one-third for sugar-cane and two-fifths of other produce; chari paying 12 annas a bigah. From the coparceners and ordinary ryots, two-fifths and a half are the stated shares of Government; chari paying Rs. 1-2-0.

- 11. The same principle is adopted by Mr. Cavendish in his estimate of the rent demandable.
- 12. In stating the pargana money rates, a similar distinction is made by the kanungos between the above classes: where the lambardars are rated at Rs. 6, Rs. 7-8 for sugar-cane appears as the demand on the others, and so Rs. 3 and Rs. 3-12 for cotton, Re. 1-C-0 and Re. 0-6-0 for chari, Rs. 1-2-0 and Rs. 1-8-0 for bájra

ever quite sufficiently considered by the application to such tenants of favourable rates, such as are allowed in this district to Sayyids and in others to Brahmans and Rájpúts.

The number of tenants-at-will has been latterly increased by the sale of several shares, the former owners of which are never allowed to cultivate their ancestral fields. The only Tagas who have lost the whole of their shares are Mahomedans, and the number of people likely to give trouble is increasing. In four pattis the owners pay knewat rates, in one patti Padhán, they charge themselves the rates of occupancy tenants and divide the profits.

As a rule the cultivating landlord is about the hardest master a tenant can have, but now the rights of the occupancy tenant are guarded, and in this estate only 132 acres are cultivated by tenants-at-will, 126 are in the hands of occupancy tenants, and 1,644 are held by cultivating proprietors.

The distinctions noticed by Mr. Cavendish have continued to be generally made between owner and tenant, but would not be permitted between lambardar and pattidar. In Barlah the old uniformity of rate continued until money rents superseded the old crop and kind rents.

and gram, Re. 0-9-0 and Re. 0-12-0 for shamak, Re. 0-12-0 and Re. 0-15-0 for barley. The zemindars (influenced doubtless by their actual circumstances) state the Government share generally at one-third.

- 13. The village expenses disbursed by the malguzars are audited by all parceners and collected *pro rata*.
- 14. There are no slaves; but a kind of hereditary connection appears to exist between the zemindars and the low caste (Chamár) ploughmen employed by them. The latter cannot change masters, but they may become day labourers or leave the village.

- 15. The patwari (Kishan Bakkal) appears to have been chosen by the general body of the cultivators under the authority of the late Mokarraridar Ramdiyal. The lambardars appear formerly to have kept the accounts; but the parceners complaining against them to Ramdiyal, Kishan Bakkal was appointed. His allowance is three pice in the rupee of the Government jama.
- 16. The village servants are paid chiefly in kind, of these all appear to be removable by the zemindars excepting the sweepers. To the village watchman there seems to have been added recently a chaukidar connected with the thana, though very properly chosen by the people.

Formerly Rs. 3 per cent. on the jama were allowed, but in this as in other communities the sharers become jealous of their representatives, and insist on statements of actual expenditure.

In this respect time has worked many The serf has become a free changes. labourer, and if he were not so attached to his house in the village would be master of the situation. As things are however, he stays on in the village, and there is no sufficient pressure of population and now no fear of famine to force him to leave it. But the ploughman can close his engagement at the end of each year and the ordinary labourer at the close of each month. Labourers get Rs. 3 or 4 per mensem, ploughmen an eighth share of grain and cotton, but nothing from cane and fodder crops for their own labour. The families of both of course can make what they can.

Kishan Bakkal was dismissed on the complaint of the zemindars in 1848 for misconduct, but the zemindars seem to have afterwards relented and he was appointed Gomáshta at their request, a Shekh of Chapár having been appointed patwári.

Of the old pice five went to the anna so that the patwari's pay amounted to Re. 1-6-0 per cent, and even when the jama was at its highest, he only received about one half of his present pay.

The village will now contribute Rs. 260 to the patwari fee fund, and the outlying hamlet Bhambaori Rs. 22, of this Rs. 108 have hitherto been paid to the patwari and Rs. 60 to the gomashta.

The village servants are paid in kind at each harvest, and the zemindars' authority seems to be pretty complete over all except the bhangis, whose organization still remains so perfect that it defies the landlord, who must do the best he can with the sweepers of the village.

The four chaukidars are now paid under the new rules in money at Rs. 3, per mensem.

- 17. The population is stated at about 2,000 souls, living in 478 houses. The families of the proprietors (biswadars) amount to 759: many are in easy circumstances.
- 18. The ploughs are 143 drawn by four bullocks, and 42 drawn by two bullocks, the last of which the people reckon only half a plough. The former is reckoned equal to 90 or 100 bigahs (kacha bigahs of one-third the standard bigahs, or 972 yards only) a moiety being cultivated in each harvest.

- 19. The zemindars of this village appear to have rather an extended paikasht cultivation in lands belonging to others.
- 20. Water is found 60 feet from the surface, and a well, which must be of masonry, would cost about Rs. 1,500; none therefore are used for irrigation. The soil of this village does not appear to be favourable, though it is highly cultivated, owing to the industrious character of the inhabitants. Having no wells, it has none of the more valuable crops that require irrigation.

The population now amounts to 2,628 persons, living in 643 houses. There are now 320 proprietors instead of 215 as in 1825; and the number of the proprietors and their families is considerably greater than 50 years ago.

There are now 85 four bullock ploughs and 70 drawn by two bullocks, giving 480 plough cattle against 656 formerly recorded, but even if the old statistics are accurate there can be little doubt that the plough cattle are much better and larger than of old, so that a smaller number may be quite equal to the increased work now taken from them.

Notwithstanding the improvement in the standard of farming a four bullock plough is still reckoned sufficient for 100 kacha bigahs or 12½ acres, but the Tagas of Barlah hold much easily and carelessly cultivated land in Bhambaori and other villages.

Barlah proprietors and tenants cultivate the whole of the outlying estate of Bhambaori which belongs to the Tagas of Barlah. They also hold land in Tajpur, Mandlah, Kutabpur and Bhainsáni, in all 260 acres wet, and 643 acres dry, besides the land in Barlah.

A well for drinking purposes can now be constructed for Rs. 400 and water is found at 18 feet from the surface even late in the hot weather. Wells are not used for irrigation and are not therefore now sunk very deep. The soil is excellent and the cultivation extremely careful and good, but Mr. Cavendish's statement that Barlah had none of the more valuable crops that require irrigation is shown by the next paragraph to be somewhat misleading. Crops which can be grown in a dry tract may be said not to require irrigation, but most crops grown in irrigated lands were, it is clear, cultivated in Barlah as throughout the neighbourhood. In 1841 long before the Ganges canal was opened, this pargana entirely unirrigated grew about 1,500 acres of sugar-cane, 1,100 acres of cotton, and 1,500 acres of coarse rice. The cane crop has increased in area to 2,188 acres, cotton to 1,736, and rice to 3,963, of which more than 3,000 acres are sown with the finer rice previously unknown.

In the year of measurement Barlah had 8½ per cent of its area sown with cane, 2‡

with cotton, 18½ with the finer rice, 7½ with coarse rice, and the twice cropped area recorded was 17 per cent. of the area to which must be added 7 per cent. ploughed for cane after kharif. In 1825 and again in 1841 there was no irrigation; now when the benefit of every doubt has been given to the people, 1,820 acres are recorded wet, and 82 acres dry.

The same crops are still grown, although the proportions have no doubt changed greatly: the finer rice too has generally taken the place of the coarser variety, more land too is now devoted to fodder crops which in Barlah cover from 10 to 12 per cent. of the area.

The designations dahar and dandah are still in general use, dahar is loam, dandah as distinguished from dahar is sand, but the word is frequently used to denote more particularly high uneven sand as distinguished from level sand or bhúr.

During the last ten years prices have varied greatly less than they did in a similar period 50 years ago; and the highest prices of the former period are little above the average of the last ten years, but the price of gram approximates closely to that of wheat, and rice is also dearer in comparison, the finer rice following generally wheat and the coarser barley. Uncleaned cotton has changed in price less than other produce, but the price of sugar in its various forms has doubled.

The nikasis record a rental of Rs. 34,096 in the last year of drought and an average of about Rs. 15,000, but it would be difficult to levy this rental in money. In the famine year Barlah paid Rs. 5,611 in the form of water rates, and the average annual payment amounts to, over Rs. 4,500. The revenue has now been raised from Rs. 4,500 to the old sum of Rs. 5,200, a little more than the sum indicated by the rates of the first circle. The experience of other first class estates shows that rates much higher than those assumed could not be levied through a term of years hitherto, and although the new jama will no doubt fall lightly enough in this village, it would have been dangerous to trust the prosperity of Barlah to anticipations, and it would have been hard to assess this estate

21. Mr. Cavendish has given various statements of

Note.—He has rendered comparison perplexing by sometimes using one kind of bigah and one kind of weight and sonetimes another. It is very important that all reports should be uniform in this respect.

statements of the average produce of the different kinds of crops, as prepared by the kanungos, by

the tahsildars, by the zemindars, and by himself. The results vary considerably. The produce is stated to be rice, shamak juar, bajra, mash, sugar-cane, cotton in the kharif; and wheat, barley and gram in the rabi harvest. The land is divided into two descriptions of soil, dahar and dandah, low or inundated, and high.

22. The prices of grain as given for

10 years exhi
Nora.—The weight is given in seers (40 to a maund) of 92

Kaldar rupess each.

10 years exhibit extraordinary variations; wheat

from 65 to 22 seers to the rupee; gram

from 60 to 29; barley from 70 to 31; rice

from 65 to 22 seers to the rupee; gram from 60 to 29; barley from 70 to 31; rice from 60 to 45; mash from 80 to 26; kapas or uncleaned cotton from 20 to 9; ráb from 25 to 30.

28. The estimate of the kanungos, taking as its basis a division of crops, with an average produce of three sorts of land, and the medium price of 10 years, gives a Government rental of Rs. 7,762; the zemindars estimate gives Rs. 5,335; Mr. Cavendish's Rs. 7,881; the pargana money rates Rs. 7,223; the revenue of fashi 1229 appears to have been Rs. 5,200, raised by the former Shekh Kallan to Rs. 7,400.

the mar-

31. On the other hand, the village expenses are stated to have averaged in the past five years about Rs. 508 which appears to be excessive. There are several collections consisting of the articles noted in

Rs. 1 on each loom.

"2 " n oil mill.

"2 Painter's house.

"1-8 Gram parcher's house.

"1 Labourer's house.

"1 Labourer's house.

"3 Gold smith's house.

"4 Separation of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of the probably of t

a small profit to the zemindars; and on the whole, there seems no sufficient reason to suggest any reduction of jama.

The people are said to be quiet and industrious in their habits; but their females do not assist them in agricultural labours. The soil of that part of the country is said to be generally inferior; their cattle very poor compared with those of Delhi.

32. The ordinary rate of interest is stated at Rs. 2 per mensem. The zemindars are represented as suffering seriously from the exaction of the Banias, the improvidence with which they give bonds to escape immediate trouble, and the leaning of the native Commissioners in favour of the wealthy.

at rates higher than can be applied to estates of similar natural fertility and equal artificial advantages. The average rentrate is now between annas 13 and annas 14 per kacha bigah, instead of the annas 8 of 1825.

Village expenses are stated to have averaged in the last five years Rs. 135.

The Chamars pay 22 pairs of shoes. The zemindars say that they used to levy annas 8 per house, but after the punishment of two zemindars in the district for levying similar dues they put an end to the ancient practice. It is hard to see any object in discouraging an ancient and acknowledged custom by which the expense of the village police was distributed over those who benefit by its maintenance. In this as in all other matters every change we make seems to be made for the benefit of the Bania. The great majority of dues formerly given are not now paid, and zemindars complain that their authority is waning, and having forgotten the evil days of high assessments and Shekh Kallan's farm, pretend to regret the past

The people retain their former character, but education is making way, and elementary education seems invariably to make a disagreeable litigious person of a Taga.

Taga women do not work in the fields except at such light labour as the cotton and saffron harvest seasons afford. It is probable that the cattle have greatly improved since 1825, and that fewer of them do more and more effective work.

The rate of interest varies from Rs. 1-8-0 to Rs. 3-2-0 per mensem, i. e., from Rs. 18 to Rs. 37-8-0 per cent. It is to be feared that the village usurer of the present day has inherited all the partiality for exaction with which his ancestor in 1825 was charged. But it may be allowed that if the creditor is rather hard to deal with, the debtor is frequently very unsatisfactory and Tagas have not a very good character for straight forwardness. A petty zemindar with a character for straight forward dealing can always get money at 15 per cent., and even large sums when required by an impecunious landlord even with large property are charged 12 per cent. and more. It

has been ascertained with sufficient accuracy that the zemindars of Barlah ewe from Rs. 50,000 to Rs. 60,000 to Baniss. They attribute their embarrassments to the high price of cattle, high interest, uncertainty of the supply of canal water, and the exaction of full water rates even when the supply fails. They forget, however, to mention what I am afraid is the chief cause of the ruin of both great and small in this district, the reckless expenditure which is at present a necessary accompaniment of various domestic occurrences. Unless on the occasion of the birth of a son and heir, or of the release from life of a very aged relative, but little expenditure is incurred by Hindus except at a wedding. But the extravagance of the lower classes in the celebration of marriages has increased with the general prosperity, and the expenditure is stated by the people themselves to vary from Rs. 50 to Rs. 1,000 Even the expenditure of Rs. 500 must cripple the wealthiest Tagas, who have no other means of livelihood except the possession and cultivation of land paying Rs. 100 revenue.

Notwithstanding, however, the extravagance in some respects which custom imperatively demands, the Tagas of Barlah have bravely held their own. They have survived the over lordship of the Sayyids and of the Gújar Rája, the hard tyranny of Captain Shekh Kallan, and they have kept their land notwithstanding the full assessments of a punctual Government, the terrors of frequently recurring droughts, the constant nibbling of lesser Government officials, and more than all the ever watchful money-lender, and their own needlessly extravagant customs.

41. The village of Khaddah in pargana Pur appears to be possessed by 62 Gárahs, partly Moslems and partly Hindus. It is divided into two tarafs one being held by each class, and each charged with a moiety of the Government jama. The Hindu taraf is divided into two subdivisions or pattis; the Moslem into three thoks, paying the revenue of the Government rateably. The extent of land occupied by each does not follow exactly the same rule. The Moslems claim a larger extent than the Hindus to make up for

The settlement of this village is popularly attributed to Nawab Abdullah Khan of Jánsath, who built a fort here in the reign of Alamgir, but the village is clearly an old one, and the tradition merely shows that the Sayyids of Jánsath who extended their authority to this pargana at the time of their greatest prosperity, had a more than ordinarily firm hold on Khaddah. After the fall of the Sayyids the village was included in the mukarrari of the Gújar Rája of Landhaurah. On his death in 1813, Khaddah was settled with resident

inferiority of quality, and have an excess b esides; the extent of fields being reckoned by an inaccurate estimate, nominally 12 bigahs each plough. Although the tarafs are distinct, the fields intermingle, each cultivator desiring to have some good and some bad land. The village site, the unculturable and rent-free lands are common. One of the pattis is stated to be mortgaged to one of the proprietors of another, who receives from the cultivators of it the zemindari rasum, viz., one seer per maund of grain produce, and two annas and one anna and six pies per bigah on lands respectively cultivated with sugar-cane, cotton and chari. This transaction does not appear to have led to any alteration in the management or any permutation (dakhil kharij) in the Collector's books.

The lambardari or mukaddami allowance is quite distinct from the zemindari rasum, being attached to the management of the village concerns with Government, it used to be paid by the State, but now where paid at all is paid by the people.

In this village the lambardars appear to receive four rupees a plough, the village expenses are also met by an assessment on the ploughs. There are two patwaris who receive three per cent. on the Government jama; the chaukidar six pies per house; the bullahur's perquisites seem to be uncertain. The lambardars of this village appear to be unpopular; and Mr. Cavendish contemplates the expediency of a kham or ryotwar settlement, deeming it apparently quite open to Government with the consent of the people to set aside the lambardars.

42. Of the cultivators not recognized as proprietors or zemindars there appear to be two classes. The one the members of which are said to be related to the Gárahs, is stated to have a right of posses-

Tagás and Gárahs. Sayyid domination seems to have incapacitated the people here as in other villages for self-government, and the Tagas have lost half their property and the Gárahs more than half to the Chapár mahájan, who now owns more than half of Khaddah. In earlier times Khaddah seems to have been much more leniently settled than Barlah, and here, as in most other cases in this district, assessments seem to have had little to do with transfers.

The Gárahs say that they are converted Bargújars and all Gárahs seem to have a Rájpút origin, they are excellent cultivators equal to any in the district; but have not as a rule the organization of a good Rájpút community. Two Mahomedan and one Tagá patti remain, but the jama is now distributed by striking an average between the sums obtained by soil and assessable rates of each kháta. now 3 mahájan, 30 Tagá, 1 Shekh, and 22 Gárah sharers, and among the latter subdivision has now become so complicated, that for absolute correctness of account one bigah has to be nominally divided into 32,00,000 shares, but practically the inconvenience is no greater than if it were recorded simply shámilát. A chakbat partition has now been substituted for the old field by field arrangement, but the Mahomedan patti still has a greater extent of land than the others on account of the poorness of the soil.

The lambardar's allowance no longer depends upon custom, and there is now only one patwari, who, as it happens, receives four per cent. on the enhanced jama. The chaukidar is paid by Government.

There are now 229 cultivators, of these 57 are proprietors, 140 occupancy temants, and 32 tenants-at-will. Occupancy tenants pay under the new rent-roll Rs. 6, per acre, wet loam; Rs. 4-8-0, per acre, wet

sion, which as it is alleged not to attach to particular fields, seems to be rather a vague title, and of cultivating their lands at the same rates as the zemindars, but without any vote in matters connected with the management of the village. The other though equally resident from time immemorial is said to have no rights whatsoever. There are páhi cultivators who pay one-fourth and one-third the produce besides the zemindari rasum. The revenue of Government is distributed in some of the pattis on a mutual estimate of the crop; in others by the ploughs.

43. The village appears to contain of cultivated land 1,944 bigahs, land prepared for sugar-cane 536, arable 542. The bigah is of 2,916.09 yards of 2 feet 10 inches each.

- 44. The kanungo's estimate of rent (making the lambardars pay two-fifths and the others one-half the produce) gives a rental of 3,208. The zemindars estimate (taking all at the same rate) 2,320. The pargana rates give 3,064.
- 45. The jama is Rs. 2,500. This Mr. Cavendish appears to wish to be continued, stating that the present demand (about a rupee a bigah) is heavy but that good management would increase the number of ploughs and extend the cultivation, 90 or 100 kacha bigahs he considers the most that can be managed in that part of the country by a four bullock plough.

Houses 442; souls 1,159 (vis., males 656 females 503); ploughs 54; 7 wells, but no irrigation.

46. The next village Mandlah is in the same pargana. It is inhabited by Gújars in whom Mr. Cavendish states the property

sandy loam; Rs. 3, dry loam; Rs. 2-4-0, sandy loam, and Rs. 1-8-0, sand. Tenants-at-will pay Rs. 10-8-0 and Rs. 9 for good land, and Rs. 3 for bad, but the zemindar who levies these rates is afraid to live in the neighbourhood. They are probably very near rack rents and do not, I think, condemn those fixed by the settlement department.

The cultivated area now amounts to 2,661 bigahs, there are 13 bigahs recent fallow, 22 cultivable waste, and 31 bigahs under plantations.

There is obviously a mistake in Mr. Cavendish's figures, 536 bigahs might be "ploughed but not sown" but could not be prepared for cane. The non-assessable area, barren waste and revenue-free land now amounts to 270 bigahs, but in 1841 nearly double this area was recorded.

The kanungo's estimate of rent seems to have held good until the opening of the canal, as the assessment of 1841, Rs. 2,281 assumed a rent-roll of nearly that amount.

The jama is Rs. 3,000, Rs. 275 in excess of the assessment fixed in 1830, when the whole estate was dry. In 1863 over 1,000 acres were recorded wet, now with the utmost care regarding the entry of irrigation in sandy soil, 823 acres have been so recorded.

Houses now number 499, 50 of owners and 449 of non-proprietary residents; souls 2,018 (viz., males 1,099, females 919); 75 four bullocks and 100 two bullock ploughs; 509 plough cattles; 250 other cattle; 28 mares are recorded.

The owners of nearly 10 biswahs are said to owe Rs. 4,200, and the cultivators Rs. 3,500, about one year's rent. Many, both of the owners and cultivators, are money-lenders themselves, and the estate is highly cultivated and prosperous.

Mandlah, like most villages in the vicinity, seems to have come into the hands of the Jánsath Sayyids in the time of

to be vested. Past settlements appear to have been made with Sayyids, residents of a distant village, in the capacity of zemin-

Note.—They appear to have here brought by Mr. Cavendish requiring them to explain the origin of their tenere, and to reconcile it with the state of property as exhibited in the records.

dare. These men are stated now to disclaim any permanent interest: the kanungos also recognizing the

The latter attribute Gújars as zemindars. the recognition of the Sayyids as zemindars to the corruption of the native officers. The kanungos state it to have been made at the solicitation of the Gujars themselves who, having quarrelled with the mokarraridar Ramdiyal, sought thus to place themselves under the protection of the Sayyids who appear to be respectable men, and possessed of local influence. There is no patti in this village. All the Gujars, 28 in number, are said to have equal rights, nor do the headmen receive any avowed perquisites. Cultivators not belonging to the brotherhood are stated to have no rights of occupancy. The rates of division are stated at two-fifths and two-thirds, the gross produce of grain. Money rates for other articles.

The next village Chaprah, containing 1,384 bigahs of 2,916 yards, appears to be occupied by a numerous body of Gújars and Jhojhas (91) in whom the property is stated to have been vested. It was purchased by one Harsukh Rae, by private sale from the lambardars; and Mr. Cavendish puts the question, whether, and what, those persons could sell? They appear formerly to have received an allowance of Rs. 50, and three per cent. from Govern-But Harsukh claims the full zemindari interest, and collects at the rate of 18 seers per maund, calling all the cultivators Six ryots claiming no right of property pay 17 seers as revenue, one seer as rasum zemindari, half seer as shahnagi. The houses are 71; population 396; 24 four bullock and seven two bullock ploughs. Patwári's allowances, four chittacks per maund, or three pice per rupee of Government rent. The Jhojhas claim to be descended from Rájpúts. They are said to be good cultivators, their women assisting succession to

Alamgir or when they ruled Hindustanunder the nominal sovereignty of Farrukhser. It afterwards came into the hands of the Landhaurah Rája and on his death was settled with two Gújars probably mukaddams. The Sayyids however re-asserted their rights, and obtained the zemindari. Here, as in a good many other cases, it would probably have been fairer and more expedient to have made the Sayyids and those who held from them talukdars not proprietors.

The Gújars seems to have had distinctly defined rights, and it is to be regretted that Mr. Holt Mackenzie's fear "that throughout all the provinces the courts have too little distinguished the different interests which attach to land" should not have led to more decided action. The new law too as finally amended, does not authorize any special consideration to those who like the Gújars of Mandlah have been hardly treated.

This is borne out by a statement of shares dated 1823, from which no doubt Mr. Cavendish wrote his notes. There are now 18 Gújar occupancy tenants who are doing well.

The two mukaddams or representatives of the village community are still treated with consideration.

The present recorded area is 1,299 bigahs of which 1,086 bigahs are cultivated, and of this area formerly entirely dry 618 bigahs are now irrigated. The question of proprietorship has been decided in favour of the mahájans. This village too fell into the hands of Sayyids but the last owner had to be satisfied with a portion of the area still known as "Bhondah Burhiya Sayyidáni," and on her death the Jhojhás and Gujars assumed possession of the whole village. Very shortly after the annexation the head-men sold the village to Harsukh Rae of Chapar, who seems to have been in complete possession in Mr. Cavendish's time.

For many years half the village was mortgaged to two of the Gújars, but has now been released.

There are now 108 houses; 463 inhabitants; 17 four bullock and 20 two bullock ploughs; but there are 175 plough cattle. Many so called four bullock ploughs having 6 bullocks, and two bullock ploughs 3. There are 242 other cattle, and 8 mares.

property as in Barlah (No. 1.) The rental is estimated at Rs. 1,434 by kanungos; by money rates Rs. 1,357; by zemindars Rs. 1,678; average of four years Rs. 1,441.

The Jhojhas state like the Garahs that they are descended from Rajputs and that they got their name from their zeal as soldiers, but they were never known as soldiers, and they are certainly excellent cultivators, and are more likely if Jhojhas be derived from "jhojhi," strenuous, to have been named from their industry as agriculturists. When a Jhojhá aspires to a more distinguished designation he does not call himself Shekh like other converts but Mughal, a circumstance which tends to confirm what Sir H. Elliot says is reported to be the origin of the Jhojhas of Anupshahr. The Jhojhas are excellent cultivators, but of late years they have been coming gradually under the tyranny of the pardah, and their women do little work in the fields.

Succession now follows Mahomedan law, the lower castes having proved less tenacious of Hindu customs than true Rájpúts.

The rent-roll has now for some years averaged about Rs. 2,200, and the jama which in 1825 was Rs. 1,000, now stands at Rs. 1,060. Irrigation at low rates therefore has benefited the Bania rather than the State. Omitting the Gujar mortgagee, who has been fighting with the Bania mortgagor, the village owes over Rs. 4,000, a little less than two years rent, a sum which the people could probably liquidate by selling their cattle other than plough bullocks. The rate of interest varies from Rs. 24 to Rs 37-8-0 per. cent. per annum. Jhojhá's are said to spend Rs. 50 to Rs. 200 at weddings, and Gujars Rs. 100 to Rs. 600.

The next village Phalaudah nearly corresponds in circumstances with Barlah. It originally belonged to a set of Tagas (133 in number) sprung from the men of that place; divided into four pattis. Part has been sold under decree for debts of six persons including the lambardars of all the pattis, and bought by Shekh Kallan, who farmed the whole from Government. This person is said to be guilty of much exaction, getting the cultivators into his power through bonds executed by them in ignorance or in fear. Mr. Cavendish questions the extent of the Shekh Kallan's interests, urges the expediency of fixing those of the zemindars, and of fixing pattahs to all the cultivators.

The Tagas managed to get back their property by paying Shekh Kallan what a panchayat adjudged to be his due. The ex-kanungo recently tried to get a feeting in the village but burnt his fingers in the transaction, and the Tagas own the whole of the village, having also purchased a small share acquired by the descendants of Shekh Kallan.

Before Shekh Kallan's time, the Taga zemindars appear to have paid one-third for grain, Rs. 3 per bigah for sugar-cane, and Re. 1-4-0 for cotton land, receiving deductions on failure of crop, all paid a like, but lambardars received five per cent. on the jama from Ramdiyal, the mokarraridar. Cultivators, not zemindars, are stated to have no rights beyond the year for which they undertake the cultivation.

The village appears to contain 3,526 bigahs (equal to 5,732 Bengal bigahs) of which 2,510 are cultivated, and 631 arable; 97 ploughs; 229 houses; 1,105 souls. The rental demandable is by entimate of pargana officers, Rs. 4,345; by pargana rates, Rs. 4,214; by village estimate Rs. 3,108; by Mr. Cavendish's estimate Rs. 4,345. The assessment is Rs. 3,925 which Mr. Cavendish proposes to continue for ten years with the addition of a percentage of  $7\frac{1}{2}$  to lambardars.

61. The two villages Chapar and Walipur next mentioned, are stated to be properly pattis of one village, held by branches of the same family, but one Moslems, the other Hindus, Tagas by caste.

They, or some of them, are stated to have surrendered the zemindari to the tahsildar (a Sayyid and a man of influence) for protection against the Rája. He sold to a Hindu Lachhman Das, the Dewan of the late Rája, and the present engager; and the Tagas having sued for zemindari after wards filed a deed of ládáwá (relinquishment). Mr. Cavendish questions the validity of these transactions in which only part of the zemindars appear to have been concerned. They are very numerous, and

The rates now are per acre, cane Rs. 12 for zemindars; Rs. 15 for tenants; cotton Rs. 6 for zemindars; Rs. 7-8 for tenants; chari Rs. 3 and Rs. 3-12; grain one-third for zemindars and 18 and 20 seers for tenants.

Increased fertility and easy assessment have rendered the old high rates for owners unnecessary.

Now the area of the two mahals of 15 and 5 biswahs into which Phalaudah is divided is 3,723 bigahs, of which 3,331 are cultivated and 86 arable. There are 63 four bullock ploughs and 58 two bullock ploughs but all the four bullock ploughs are not fully furnished, and there are only 287 plough cattle.

There are now 292 houses and 2,250 persons cultivating Phalaudah and in two adjoining villages.

The debts of the owners are said to amount to Rs. 7,000. Interest is charged at Rs. 15 to 24 per cent. per annum, and these favourable rates are a proof of the prosperity of the people.

The recorded rent-roll of recent years averages about Rs. 7,500, the new jams is Rs. 3,600, Rs. 650 more than the assessment of 1863, and Rs. 1,016 in excess of that fixed in 1841, which is somewhat more than the assumed rates of the first circle point to.

The reduction in the assessment of Rs. 1,400 made in 1841 may not have been absolutely necessary, but it seems effectually to have relieved Phalaudah.

In an old report of the tahsildar of Manglaur, it is stated that this village belonged to the Sayyids of Jánsath and was sold by them to Lachhman Das of Shamli in 1806, that the Tagas claimed proprietary rights but afterwards allowed that the Sayyids had been zemindars and that they only claimed haq mukaddami. Their claim was formally dismissed in the civil court There seems to be no question in 1813. that the Chapár Tagas held much the same position as those of Barlah, but the weakest claims became sufficiently strong when transferred to Lachhman Das in whose behalf the courts seem to have contradicted themselves with the most marvellous readiness, and if the rights of the Sayyids had their possessions very ancient. The arable land is stated to have been divided 600 or 700 years ago. The waste site of villages and lands are still held in common. There are six pattis. Of the hereditary cultivators not of the race of Tagas, six claim right of occupancy and recovery after relinquishment, and the claim is allowed by the Tagas. The present engager claims the right of ousting all, Tagas included, at pleasure. The succession to the post of lambardar (manager) used it is stated, to be regulated as in Barlah, the lambardars receiving 10 per cent. commission: now they get Rs. 20 or Rs. 30 which the engager calls mukaddami, and the people themselves zemindari rasum.

The patwari has Rs. 20 each harvest, and holds 10 bighas of land. The engager claims a rent by kankut, at the rate of one-half the crop for grain, this is considered by Mr. Cavendish to be excessive. The rental demandable is by pargana officer's estimate Rs. 5,580; by pargana money rates Rs. 5,511; by village estimate at present rates Rs. 5,934; at owners rates Rs. 5,307; by amin's estimate Rs. 5,469; by engager's Rs. 7,895. The jama which had been Rs. 3,000, was needlessly reduced to Rs. 2,500. The lessee besides the stated rent takes various perquisites under the name of village expenses Rs. 303. The racba is stated at bigahs 5,901; cultivated 3,099 (Bengal bigahs 5,038) of which 454 is dofasli; prepared sugarcane 262; arable not cultivated 1,498; houses 358; souls 1,644; ploughs 100 of four bullocks and 68 of two.

not been sold to the treasurer of the Landhaura Rája, the Chapár Tagas would have probably held their own as those of Barlah did. At the most whether to the Sayyid or the Bania the conferment of taluqdari right would have shown ample consideration for ancient claims, and Chapar might be a happier and better behaved village than it is. The Banias too have lost in other ways what they have gained in rental: the son of Lachhman Das was murdered in. another village it is true, but it is generally believed that his Chapár tenants both instigated and took part in the crime, and as I write, the fine well built mansion of the mahajan stands empty, because a Bania has been murdered in a neighbouring town, and the representative of Lachhman Das and his murdered son is afraid that the thirst for blood should extend to the men who hold that their ancestors were outwitted by Lachhman Das.

The mukaddami haq now amounts to Rs. 125 divided among three Hindus and two Mahomedan Tagas.

The Chapar Tagas retained proprietary rights in the outlying and comparatively, valueless estate of Patheri which was divided like the parent village.

The new rent-roll stands at Rs. 10,173, and new jama at Rs. 5,100; now-a-days the landlord especially in Chapár gets little that is not entered in the rent-roll, but the Banias pay a pice per rupee on the price of all sugar purchased from the people.

The debts of the tenants are stated to amount to Rs. 12,700, Rs. 3,700 being due from Hindus and Rs. 9,000 from Mahomedans, the number of the tenants being about equal.

The area is now 5,608 bigahs of which 4,773 are cultivated and two-thirds of this are now irrigated.

Here as in Khaddah Mr. Cavendish's statement of land prepared for cane is hardly trustworthy.

Houses number 543; there are 2,616 persons; 82 four bullock and 49 two bullock ploughs with 560 plough cattle; 870 other cattle, and 25 mares.

In Kasimpur and Sumarthi Gujars and Jats are both now merely occupancy

63. To the property of the two next villages, Sumarthi and Kasimpur, various

claims appear to attach. The original owners appear to have been Jats; but the villages being deserted by them, were reoccupied, about 35 years ago, by a set of Gújars, who built a fort and settled the original proprietors with themselves. The Gújars claim 10 biswahs (a moiety) of the village. The Jats claim to be considered proprietors of the whole 20 biswahs. The Játs, however, acknowledge that they cannot claim from the Gujars any share of the crop, though they call them only hereditary cultivators, and the aggregate jama of the village is borne by them in equal proportions, viz., one-half by one class, one half by the other class, and it appears that the Gujars never paid the secrenah or zemindari rasum to the Játs. Mr. Cavendish proposes to restrict the right of the Gujars to the lands cultivated by them (to be held by them subject to the payment of their proportion of the Government revenue and village expenses), and to that of pasturage, but without allowing them any property in the waste. The Sayyids of Rasulpur claim to be proprietors; but this Mr. Cavendish appears to consider wholly groundless. It appears certain that they had nothing to do with the village for 60 years. Lachhman Das, the Dewan of the late Rája, on the death of that person, claimed the property of the village by notice of two deeds of sale, under which he was registered as zemindar, and admitted to engage with Government. Three only of a numerous body of coparceners having been parties to the sale, Mr. Cavendish proposes to regard it as conveying only the interests of the sellers; one of these appears to have been lambarder on the part of the Jats; but he was a fourth. son selected for the post during the life time of his elder brothers merely as being the shrewdest of the family, and Mr. Cavendish appears to hold it certain that the office was not saleable. The purchaser, however, or rather his representative, claims to be considered as absolute proprietor, with right of ousting at his pleasure all the cultivators. He appointed two persons to manage the village as mukaddams, one to be lambardar of Játs, who sold the village, and the other a Gújar, assigning to them a liberal mukaddami. The share of the crop which is demandable as rent is only one-fourth, but the engager

tenants, and the mahájan of Chapár is the acknowledged proprietor. Mr. Cavendish's account of the change of proprietors is still given, but now that nothing can be got by denying it, all allow that the Sayyids of Basúlpur were formerly owners or at least had certain rights in both villages.

The tenants of both villages owe about three years rent, and the money-lenders with whom they deal follow rules of business which, if not unusual, are curious in their extortionateness. All advances even if made only a week before the close of the half year are charged two annas in the rupee interest, making even for an advance given on the first day of the half year 25 per cent. per annum. When money is advanced 15 annas are made to count one rupee, when grain, it is charged one seer dearer than the market rate, when on the other hand cultivators repay grain it is credited at one seer cheaper than the ruling rate at the time.

Lachhman Das seems to have had every thing his own way. If he bought from a Sayyid, the Sayyid's rights were held to exclude those of the community. If he bought from representatives, the representatives were held to have sold the rights of the whole community, and here as in Chapár bought by Hareukh Rae, son of Lachhman Das, the ancient claim of the Sayyids seems to have been set aside. Indeed the rights of the Sayyids became unassailable only when they had been transferred to a Bania.

is said to swell his demand by an arbitrary and excessive estimate of produce. The lambardars, it is said, used to receive from Rs. 2-8-0 to Rs. 5 per cent. on the jama with other advantages. The patwari gets 4 chittacks per maund on grain and 3 pice per rupee on money rents.

70. Khaikheri and Nanheri are stated to be possessed by a great number of Jaga zemindars, who had divided the cultivated land, but left the site of the village and waste in common. Many disputes existed among them as to the mode of paying revenue. Some desired to pay by the plough, others at a fixed rate per bigah, a third by mutual estimate of crops. It was at last agreed that all should undertake to cultivate according to their shares by inheritance and pay rent accordingly, or resign for ever their right to what they did not occupy, and what another occupied. There are some hereditary cultivators not of the class of proprietors but paying at the same rate, they cannot be ousted, but if they relinquish, have no title to recover, and cannot transfer. Páhi cultivators pay one quarter, at which rate in former times the lambardars paid; other cultivators paying one-third for grain. For zabti lands both paid the same rents; but lambardars used to get allowance of from 5 to 10 per cent; now they get nothing. Patwaris get three pice per rupee. There are two, Mr. Cavendish recommends one.

Khaikheri (for the name of the dakhili, manzah Nanheri is almost forgotten) has remained for the most part in the hands of the ancient Taga owners, but dissensions in this village have led to more important transfers than in Barlah and Phalaudah and about 15 of the land has fallen into the hands of outsiders since the reduction of the jama in 1841. The assessment has again been enhanced to the old sum Rs. 3,800 fixed after the death of Rája Ramdiyal in 1813, when the whole area was dry. Now about half of the 1,842 acres of cultivated land is irrigable.

Tenants paying khewat rates are only found in this district as far as I know in the most heavily assessed tracts. There seems little doubt that in the old days of high assessments the zemindars associated with themselves the old residents who agreed to do their utmost in bad times, and enjoyed the same privileges as proprietors in good seasons.

The upper Duáb is by no means the only part of the country in which such tenants are to be found, and it is to be regretted that the new law makes no provision for them.

Their rates were fixed in Muzaffarnagar before the new law was passed. The shares now paid are one-half for good land and one-third for bad. The people of Khaikheri now cultivate in 14 villages besides their own, and favourable rates for poor resident cultivators are not required. There has for many years been a great deal of ill-feeling in this village on the subject of lambardars, which the reduction of their number from ten to two did not at all allay; the number has been again increased to five.

There is now one patwari who receive Rs. 10 per mensem.

( xxxiv )

APPENDIX IV. Comparative statement of soil		areae.
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APPENDIXIV.

Comparative statement of soil areas—(concluded).

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APPENDIX IVa.

Soil statement of revente-free estates and patches.

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	.ion.	Total cultivat	1,694	7,936	1,944	1,017	119,7	. 87	20,844
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	£	rangana.	Pús Chapás	Musedarnagar	Bhákarheri	Jánsath	Khátoul	Bhfmah Sambalherah	Total
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APPENDIX V.

Statement showing the areas of sugarcans, cotton, and rics, irrigated by the Ganges Canal.

		1860-61.	_	186	1861-62.		1862-63.	63.	-	1863-64.	49	_	1864-65.		=	1865-66.	-	=	1866-67.			1867-68		,-
Name of pargams.		North	Northern Division only.	ISTON OF	ILY.	<u> </u> 				Non	THERM	AND AND	FPBHAR	2 Dryma	Northern and Antrehar Divisions only.		-				ALL T	ALL THE DIVISIONS.	BIOMB.	
	Bies	Cotton	Свле.	Bice.	Cotton	Cane. Rice.	Cotton.	Сапе.	Eioe,	Cotton.	Cane.	Rice.	Cotton.	Cane.	Rice.	Cotton	.ease.	sice.	Cotton.	Sene	gice.	,mossoc	,ene.	
Púr Chapár Musaflarhagar Bhúkarheri Jánsath Khátauli Bhúmah Sambalherah	191 423 346 	200 : : :	898 448 403 81 81 81	2,782 1,556 1,556 1,155 1,155	904	2,088 2,070 2,267 2,638 2,108 2,273 190	<u> </u>	5 1,862 111 2,129 17 1,993 2 1,002 4 814	4-4	4 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,392 1,889 1,739 208 688 688	2,980 2,008 2,765 69 96	840 77.5 880 880	1,794 2,334 1,794 1,794 816 1,784	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1 00000	1,546 1,968 1,968 1,968	67.4 6.460 67.98 67.4 67.8	1386	1,262 1,584 1,469 1,469 1,469	2,715 5,28 5,28 2,516 2,516	38 28 28	1,569 1,810 1,810 8,956	
Total	096	136	1,259 5,470	<u> </u>	52 6,4	6,453 7,072	88	<del></del>	13	1-	<del>. ] •</del>	8,208	÷		9,862		<del>-</del> -	13,650	!_		288,18	8 2	12,008	
		1868-69.			186	1869 70.			1870-71		. -	1871-72	-73.	-	- 8	1872-73.	-	-	1878-74.		_	1874-75.		
Name of pargana.											ALL TE	ALL THE DIVISIONS—(contd.)	) — <b>9</b> 40	ntd.)										
	Bice.	Cotton	Свпе.		Rice.	Cotton.	Cane.	Bice.	Cotton.	Свляс.		Rice.	Cotton.	Cene.	Rice.	Cotton.	Cane.	Rice.	Cotton.	Сепе.	Bloe.	Cotton.	.eu <b>s</b> J	*****
Púr Chapár Muzaffarnagar Bhúkerheri Jánsath Khátauli Bhúmah Sambalherah	8,141 8,519 8,993 8,468 889	483 407 402 884 460 175	1,698 1,698 1,880 1,728 3,196		5,326 4,735 4,437 3,034 9,459 467	361 467 222 372 372 58	2,001 2,430 3,447 2,347 3,751 1,329	3,511 3,611 3,663 2,006 1,601	136 136 147 75 75 75 75 75 75 75 75 75 75 75 75 75	1	<u> </u>	3,488 2,886 3,241 1,249 1,368	104 268 126 78 78 59	2,048 2,048 3,604 3,604 1,811	3,433 3,261 3,027 1,642 1,676	20 00 00 00 00 00 00 00 00 00 00 00 00 0	2,067 3,043 2,687 2,477 3,860	2,650 1,781 2,086 1,248 1,167	200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 2	8,638 8,138 8,138 8,000 1,797	ં લેશનું ખે	80000000	8 914 3.584 3.584 5,138	
Total	16,802	118,2	11,147		20,448	1,892	14,306	14 787	288	1-	<u> -</u>	<u></u>	1 2 2	12,973	18,322	308	15,446		10	1-	10	3.6	30,90	
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Comparative state

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No.	Maine of pargans.	Settlement.			Cane.	Cotton.	Munji,	Dhan or coarse rice.	Makai	Juar,
3	Pár Cimpár	Mr. Thornton's settlement Mr. Martin's settlement Present revision	200 201		4 1,485 8½ 3,266 5½ 2,192	3 1,114 3 1 348 4 1,783	204 71 3,084	4 1,485 1\$ 732 2} 930	99 4 85	 326 8 320
2	Missillarusper, {	Mr. Thornton's settlement Mr. Martin's settlement Present revision	 	أعدوا لصمالتين	1,594 61 2,856 51 2,004	9 797 21 1,011 8 1,474	 147 4 1,806	3 1,196 3 1,084 3 1,688	 148 304	 1} 751 1\$ 742
3	Bhlicacheri {	Mr. Thornton's settlement Mr. Martin's settlement Present revision	-	المدرا لعموالديوا	4 1,393 5} 2,787 5} 2,549	2 697 2 900 4 1,784	13 810 81,667	5 1.742 1 489 2; 1,048	209 177	336 336 270
4	Janli Jánsath {	Mr. Thornton's settlement Mr. Martin's settlement Present revision	-444	لهمالهمالهما	4 1,750 7 8,314 6 8,104	2 875 3‡ 1,601 3‡ 1,659	  29 2 <del>1</del> 1,263	5 9,167 12 831 21 1,289	706 387	24 1,341 14 706
5	Ehátanli	iMr. Thornton's settlement 'Mr. Martin's settlement 'Present revision		ميناسياسي	5 1,916 10 <del>1</del> 4 393 9 3,814	3 1,149 3 1,256 3 1,594	 284 3 1,228	3 1,149 21 987 41 1,908	*** 12 730 21 931	 9.1 1,291 9.1 1,032
6	Total	Mr. Thornton's setflement Mr. Martin's settlement Present revision	•••	مساميناسين	8,138 72 16,616 8	21 4,632 3 6,116 31 8,194	3. 1,474 41 9,997	4,7759 2,4,073 3,6,913	1,944 1,944	2 4,014 11 3,069
7	Bhámah Bambal- herah.	Mr. Martin's settlement Present_ravision	•••	477	6) 2,073 6) 2,469	- <del>28</del> 973 8} 1,197	19 #47 11 886	256 1 626	1) 508 <del>1</del> 236	1½ 414 1½ 460
8	Grand Total	Mr. Thornton's settlement Mr. Martin's settlement Present revision		المحاسمة المحاسمة	7 1 18,689 61 16,762	3 7,089 3 <u>‡</u> 9,391	1,921 4 10,383	 14 4,339 25 7,236	2,452 2,119	 19 4,498 11 3,599

DIX VI.

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PAIN O	ROPS.		1		1		, —	,	ı i		· · · · · · · · · · · · · · · · · · ·	————
Fodder Chari.	Gowar.	Urd.	Mung.	Moth.	Į	jajm.	Indigo.	Mand- va,	Sanwan,	Other kharif crops.	Plough- ed for sugar- cane.	Total.
 61 2,619 7 2,939	134 134 1 \$88	 8 8,309 71 3,858	## ## ## ## ## ## ## ## ## ## ## ## ##	7 2,845 4 1,749	With Moth	Single.  17 6,849 151 6,506			 1 686	143 16,963 - P4	 1 494 11 533	54 20,046 56 22,852 56 23,855
8 <del>]</del> 3,464 8 <del>]</del> 8,828	370	 10 4214 84 4,059	92 140	3,781 6 <del>1</del> 2,798	707 18 767	, , , 4 <u>1</u> 1,979 11 5,190	4	 55 	 180 	45 14,986 187 479	 21 1,158 21 1,078	54 21.523 58 22,195 57 26 606
4 1,755 6 2,754	101	## 18 <u>4</u> \$,901 10 4,6Q8	68	104 4,793 34 1,590	200 200 200 200 200 200 200	 16 <u>1</u> 8,131 19 8,776		41		46 16,021 7 7	 11 560 1 507	57 19,85 <b>3</b> 61 <del>2</del> 7,131 58 27,151
6) 3,174 7 8,500	2003 2003 2003	15] 7,560 11] 5,654	249 231	2,505 4) 2,322		7,607 1,12 5,894	a59		88	48 49,995 7 87	 11 746 21 1,918	59 25,807 68 89,951 55 27,834
6] 2,574 10] 4,837	 1 844 2 861	 98 3,898 74 3,201	209	9.676 2.676 71 3,195		 41 1,874 81 1,348			 1 398	45 47,948 , 19 14 419	 31 1,333 11 691	56 21,457 58 22,854 59 24,943
8 3,586 7 17,843	1,193 1,935	 111 24,783 9	        	 7 <b>3</b> 16,599 5	767	 12} 26,440 12} 27.714		   99 	1,825	45) 86,157  887 1,807	 9 4,916 ⁴ 1 ² 4,017	56 108,686 58 125,183 57 130,378
41 1,495 51 1,921	172 1 436	8 2,811 71 2,787	9.6 t	3,083 111 4,066		22 <del>1</del> 7,748 17 6,168	20	4	162	- ^{V'} 79 ⁵ 13 879	15 559 11 576	61 90.886 59 21,616
 6 6,081 71 19,964	1,865 1 8,671	11 27,528 9 28,567	77,4	 8 19,682 5 <del>1</del> 15,54)	767	3,51 34,198 121 33,889	374		1,987 1	466	 2 4 775 13 4 593	 58 146,069 57 151,995

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No.	Name of pargana.	Settlement.	Wheat.	Gram.	Barley.	Wheat and gram.	Wheat and barley.	Peas.	Bejra.	Masur.	Kusum.
1	Púr Chapár      {	Mr. Thornton's settlement Mr. Martin's settlement Present revision	29 10,765 251 10,433 251 10,705	 81 1,479 12 745	5 1,856 8 3,370 8} 3,525	182  19	3½ 1,383 7 2,964	155 126	  5	 7  20	10
2	Muzaffarnagar,	Mr. Thornton's settlement Mr. Martin's settlement Present revision	32 12,755 28 12,081 30 14,010	2,070	1 399 3 <del>1</del> 1,616 41 1,936	236	 808 91 1,049	169  46	 8  7	 13  17	 22  1
8	Bh <b>úkar</b> heri {	Mr. Thornton's settlement Mr. Martin's settlement Present revision	8,035 921 10,296	1,325	10 8,483 10§ 4,707§ 12§ 5,818§	   55	 11 693 3 1,392	  1 66	 112  7		  7  1 38
4	Janii Jánsath {	Mr. Thornton's settlement Mr. Martin's settlement Present revision	8,748 138 6 678 278 18,777	1,615	8 3,499 3) 1,621 6) 3,282	   1 447	 2 949 81 1,623	  502	# : : : : : : : : : : : : : : : : : : :	*** *** 8  26	 15 
5	Khátauli {	Mr. Thornton's settlement Mr. Martin's settlement Present revision	30 11,495 251 10,333 34 14,358	 51 2,829 4 1,668	383 1½ 585 273	•••	 1 362 298	277		7	7
•	Total {	Mr. Thornton's settlement Mr. Martin's settlement Present revision	\$6 50,729 23 47,555 28 63,146	8,818 31 7,813	5 9,620 5 11,899 6 14,834	  189 921	3,640 31 7,326	824	120 42	35	71 46
7	Bhumah Sambal (	Mr. Martin's settlement	16 5,592 16 5,853	3 <del>1</del> 1,105 8 <u>1</u> 1,179	2,894	10 3,467 89	91 8,551		 240	3	92
8	Grand Total	Mr. Thornton's settlement Mr. Martin's settlement Present revision	53,077 21 53,077 26 48,999	4 9,923 31 8,992	 6 14,293 7 18,272	 11 3,649 1,010	 1½ 3,640 4} 10,877	434 1,170	120	38  75	71

DIX VI.

ment of crops—(concluded).

HBB CROI	PB		•	В	ZRAH O	R GAR	DEN CROP	5.			!
Falez.	Ploughed but not sown	Other rabi crops.	Total.	Vegeta- bles.	Tobac- co.	Рор- ру.	Other garden erops:	Total.	Total cul- tivated area.	Twice cropped land.	Ploughed for sugar- caue after rain crops.
	 11 473 473 83	79 4,455 164 77	46 17,076 431 17,606 431 18,273	•••		•••		   21	100 87,122 100 40,458 100 42,149	   2,200	727
	 7 } 3,200 8 851	13 5,181 240 1 449	46 18,335 47 19,722 421 19,738				   49	    22	100 89,858 100 41,917 100 46,436	  6 2,672	105
	 4	13 - 4,598 87 	43 14,977 39 17,062 414 19,067			*** *** *** ***	    23	    53	100 34,830 100 44,193 100 46,271	  41 2,148	296
  	 7,056 7,8	18 5,686  75 80	41 17,933 87 18,019 44} 22,175	    50	45	10	    	  320	100 43,740 100 48,763 100 50,319	  4 2,033	  
	 10§ 4,376	13 4,981 118 	44 16,859 44\$ 18,110 40\$ 17,917	   29		**** *** *** ***	• ··· • ··· • ·· • ·· • ··	   63	100 38,816 100 40,364 160 42,223	  61 2,848	    625
	 81 17,201 709	13 24,831 684 660	44 85,180 42 90,512 421 96,470				323	   549	100 193,866 100 215,695 100 227,398	   5 11,901	   t,353
  14	732  21	51 40	39 13,884 40 <del>1</del> 14,871		  18		 ‡	  112	100 34,270 100 36,599	  1} 440	  
	7 17,933 730	735 700	 41½ 1,03,896 42½ 1,11,341				399		193,866 27,557 221,423 100 249,965 100 263,997	  5 12,341	   1,927

APPENDIX VII.

Price statement of Jalalabad, district Muzaffarnagar.

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1901	17 26 0 10 10 0 26 26 0 23 6 0 19 33 8	0 35 4 1 0 8 1 11 4 1 6 5 0 39 15	1916 0 14 0 0 15 0 0 20 0 0 17 0 0 30 0 0 1 19.0 0 19.0 0 1 19.0 0 19.0 0 1 19.0 0 19.0 0 1 19.0 0 19.0 0 1 19.0 0 19.0 0 1 19.0 0 19.0 0 1 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 19.0 0 1	8 2 0 9 8 0 12 16 0 7 17 8 10 2 8	016 2 0 18 6 0 24 14 0 14 14 0 30

APPENDIX VIII.
Statement of wells.

DESCRIPTION OF Wells not used for triverent week for triverent week.	WELLS USED FOR IRRIGATION.	Masonry.	Wells used for Of 3 runs. Of 2 runs. Of 3 runs. Of 4 runs. Total.  Total number o Drinking. Diarsed owing Ont of repair.  Dertially fallen Total.	81 19 19 1 101 81 7 8 4 6	1:0 141 82 1 3 177 28 375 162 61 6 8 237 82	71 40 2 42 1 114 71 18 8 6 97 15	113 202 29 1 1 283 117 463 115 67 85 30 245 93	187 268 67 12 3 350 93 630 186 165 27 31 398 89	134 60 8 68 20 222 133 10 1 27 171 81	766 730 138 14 7 889 :6 1,905 745 318 74 105 1,242 816
IRRIGATING WELLS.	Masoury.		Of 8 runs.  10   Strans.  10   Strans.  10   Of 4 runs.	: :		::	1 1	2 = = *	:	8-
BLIS.			Karthen.		107 286 1	16	8 601 601	147 82 2	11	632
			.nor 1 10		132 635	. 36	1,216	867	81 166	654 2,947 1,
Irrig	Masoury.		.aunt 8 10	:	686	:	1 122	933 423	:	1,965 428
IRRIGATED AREA.			Of 4 runs.	<u>.</u>	<u>-</u> :	:	:	149	:	149
4			Total. Earthen.		31 318,1	38	1,467 1,043	2,377 6.	248	5,482 2,060
			LaioT	7	164 1,467	8	13 2,510	879 3,036	174 422	30 7,542
dszvan	ofper r	to beta	girni sera latoT	:	88	:	01	382	:	417
			Grand total.	48	1,522	88	\$,520	8,433	432	7,983

APPRNDIX IX. Village etatistics.

		·					H	Toral Pepulation.	PULATI								AGRIGO	LTURAL	AGRIGULTURAL POPULATION	A PLOM.			
						1996.					+97.9					1965.					1879.		
Mamber	Mame of pargame.	ADA.	• •	Men.	Women.	Male minor.	Femele minor.	Total.	Men.	Women.	Mate minot.	Femele minor.	Total.	Men.	Women	Male in in in in in in in in in in in in in	Female minor.	Total.	Men.	Women	Male. minor.	Fem #1 c mmor.	Total.
~ # # # # # # # # # # # # # # # # # # #	Pér Chapár Muzaffarnagar Mukarineri Jsuli Jánath Khátauli Bhúmah Sambalherah	**:1** ;	:::::::::::::::::::::::::::::::::::::::	17,184 11,186 11,108 11,109 14,411 9,773	9,591 9,981 9,981 18,798 8,970 8,670	6.01.0.00 7.0.00 7.0.00 7.0.00 7.0.00 7.0.00 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000 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8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 9 8.0 0 9 8.0 0 9 8.0 0 9 8.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 8,038 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5,758 3,768 27,887	84.8.8.9.9.9.9.4.6.9.9.9.9.9.9.9.9.9.9.9.9.9.9	1.697 1,906 1,906 2,807 8,897 1,641	18 251 15,921 15,931 16,931 16,931 16,618
9	Meme of pargass.	45 A.	<del>                                     </del>	Houses.	9	Masonry Wells, 1865, 1870		Earthen Wellg.	1 8	Sugar mills.	mille.	Ploughs.	j 6	#10 ca	Flough cattle.	89	Othe attle	.0270	Sheep and goats,	and tts.	M. B65.	a se	B. B. C. D. C. C. C. C. C. C. C. C. C. C. C. C. C.
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## APPENDIX X.

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APPENDIX Xa.

Statement of assumed jamas and cesses of revenue-free estates and patches.

				Jama			Casses	•	
Kumber.	Pargana.	Settlement _e	Whole villaged,	Revenue-free patches.	Total.	Whole villagest,	Revenue-free patches.	Total.	Benerits.

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APPENDIX XI.

Statement of proposed jama for each year of the period of the settlement.

Meraffarages   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   Pár Chapit   P		Tickell.	Name of pargana.		Jame of last year of the past settlement.		1280 gpsli	1281 fagil.	4 2 8 g. fagi,	ii, 1983 faeli.		1,894 fas	li. 1286 fa	11. 1286 fae	1994 fasli.   1285 feeli.   1286 fasli.   1287 fasli.   1289 fasli.   1289	. 1288 fasil.	  1269 fasli.
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## APPENDIX XIL

Memorandum regarding the Ganges Khadir, in the Musaffarnagar District.

THE pargana of Gordhanpur and the Khádir villages of Bhúkarheri which have now been incorporated with it, and those in Púr Chapár lying to the east of the present channel of the Soláni, formed in 1841 a fairly prosperous tract, much more advanced than the valley portion of Bhúkarheri lying further south.

- 2. To the north especially there were, as indeed there still are, "considerable villages of old standing," while the southern portion was described as "splendid rice land," though "unfit for residence." But this was of less consequence, because there were situated along the upland strong populous villages, the inhabitants of which descended into the Khádir, and cultivated, especially in the rainy season, the valley lands. It is difficult now to realize the attraction which the Khádir had for upland cultivators, and the comparative facility with which men were got to go long distances to cultivate land in the valley. But it must be remembered that nowhere from the northern to the southern boundary of the district was there a fair amount of irrigated land within ten miles of the Ganges valley, and that in Púr Chapár and the northern portion of Bhúkarheri there was practically no irrigation at all.
- 3. The valley lands in this way were relatively, as well as owing to circumstances which will be noticed later, absolutely much more valuable than they are at present. On the upland both sugarcane and rice were grown in fair proportions, but the former crop was more certain in the valley than in the unirrigated upland; and in the old pargana of Núrnagar, now Gordhanpur, notwithstanding the inclusion of many dry upland villages, the percentage of rice to the whole crop area amounted to 13. Rent-rates, it is true, were low, but here, too, relatively, the Khádir is much worse than it was; and in 1841 the rates of the Gordhanpur circle closely approximated to those of Khátauli, which has now the highest rates on this side of the district. But within 15 years of Mr. Thornton's settlement, two events occurred which were destined to exert a very great influence on this pargana.
- 4. On the 29th April, 1854, the Ganges Canal was opened, and enormous as are the benefits which it has conferred on the district of Muzaffarnagar, and the dry lands beyond its limits, there is no object in attempting, as has frequently been done, to evade the conclusion, that the canal has for the present ruined the valley lands lying on either side of the upland which it waters. The injury which has resulted from the construction of the canal is very unimportant when compared with the improvements which it has effected; but in this note I have to dwell upon the injury caused by the canal; even the benefits which canal irrigation has showered upon the upland have, served only to throw additional obstacles in the way of Khádir cultivation, by making upland cultivation so much more certainly remunerative and attractive than of old, that it is difficult to induce cultivators to face the trouble and greatly increase uncertainty of Khádir cultivation.
- 5. But an event fraught with more immediate disaster to the pargana of Gordhanpur, was the diversion of the Soláni from its old channel. This took place during the rains of 1855, and was caused immediately by a large pipal tree having fallen across the stream in the Saháranpur district. The river was in this way turned from its old well-worn channel through the pargana and past the town of Gordhanpur, into the line of jhîls along the western boundary which mark the old course of a considerable branch at all events of the Ganges. This line of jhîls extended right through the district, and was situated close below the upland. For many years the Soláni ran riot over the country, and even now its channel is a shallow one, and in the rains the country is for miles liable to be flooded.
- 6. It is unfortunate that the ruin of this tract should have taken place when it did. Even before the mutiny, the injury was sufficiently serious to attract the atten-

tion of Government, but before orders on the subject could be issued, the mutiny broke out; and after the outbreak, the hands of the new Collector were full of even weightier matters. But the complete pacification of the district, and the disposal of the additional work to which anarchy had given rise, soon afforded time for attention to the affairs of this tract, and in the cold weather of 1858-59, Mr. R. M. Edwards visited the pargana, and early in 1859 measures were taken for its relief. By this time percolation from the canal had begun to show itself in the increase of marsh, and Mr. Edwards' proceedings, as well as his expressions, clearly show that the relief which he recommended was rendered necessary by the increasing percolation from the canal, as well as by the change in course of the Soláni and by the floods of that then erratic stream.

- 7. There has been so much discussion regarding the causes of the deterioration of the valley lands, throughout the long correspondence which began with Mr. Edwards' letter, that it is important to note the impressions of the officers on whom first devolved the duty of visiting and relieving this unhappy tract. Mr. Edwards attributed the percolation to the canal itself, and stated as his opinion that "any system of drainage must meet the requirements of canal percolation, as well as the water of the Soláni." Mr. Edwards recommended the remission of Rs. 397-2-6 out of Rs. 1,169, the assessment of five villages, for 1265 fasli, corresponding with 1857-58, and of Rs. 1,114-1-0 out of Rs. 2,950, the demand for ten villages in 1858-59. When sanctioning these remissions, Government ordered an inquiry by a scientific officer into the causes of deterioration. Early in 1860, Mr. Edwards was forced after again inspecting the tract, to propose the summary settlement of eleven of the most seriously injured villages.
- 8. The scientific investigation introduced into the correspondence a very useless attempt to show that the canal was entirely free from blame. Mr. Parker, the officer intrusted with the investigation, stated truly enough in his report of the 27th March 1860, that mere inability to pay the former revenue, even if real, was no proof that swamp had increased. If there had been an increase, Mr. Parker would attribute it to the alteration in the climate owing to the canal, to the mutiny, and, especially, to the growth of jungle grass. Mr. Parker was compelled to acknowledge that there was greater humidity in the Khádir than formerly, that land which wet, when ploughed, used to dry, had ceased ever to dry, but he held that this phenomenon was due to "the greater humidity of the atmosphere, the over-flowings of the Soláni, and to the increase of jungle grass."
- 9. The late Colonel Turnbull, zealous as he was for the credit of the canal, could not attribute the increase of marsh to the change of climate, owing to the comparatively trifling irrigation from the canal; and held the Soláni answerable for the damage which had been done. This extremely unsatisfactory view was generally adopted, even by the Board of Revenue and Government, and the distinct opinion of a very competent and unbiassed judge was entirely overlooked.
- 10. Colonel Morton, Secretary to Government, Public Works Department, in his note of the 15th October, 1860, held that Mr. Parker's investigation "proved that the result expected from the percolation of the canal has already taken place, and as the canal supply is raised to its maximum, this percolation will increase." Colonel Morton held that the 400 cubic feet of water lost between Roorkee and Jauli must go somewhere; that although the change in the course of the Soláni and the increase of jungle grass were chargeable with some of the damage done, much of the increase of marsh must be traced to percolation from the canal.
- 11. Notwithstanding this reasonable decision by an officer of great experience in the Irrigation Department, but at the time raised above feelings of departmental jealousy, the crude and unsupported views of those who held the jungle-grass-

theory were universally adopted, and it was needlessly assumed that the Irrigation Department was going altogether beyond its province, in undertaking the drainage of a tract with the deterioration of which it had no concern.

- 12. In the meantime settlement operations were in progress, but the drought of 1860-61, gave a fictitious appearance of prosperity to the Khádir, and notwithstanding reduction, in some of the worst estates, the jumma of the pargana was maintained, indeed it was very slightly raised. Subsequent events soon showed how very urgently relief was required, and although it was promptly granted by Mr. Martin in 1862-63, after the revised assessments had been collected for only one year, it came in many cases too late.
- 13. The inevitable neglect of this tract during the mutiny had caused the ruin of not a few of the small communities throughout this tract, and under the pressure of maintained assessments and steadily increasing marsh, these impoverished communities gave way, transfers were general, and in many cases hamlets were deserted, and the helploss inhabitants wandered away to a less hopeless neighbourhood.

The statement of collections since 1264 fashi given in the Statement at the end of this note shows the relief that was given by Mr. Martin, but that relief came, in very many cases, too late to help the old zemindars, and it was not much deserved by speculative purchasers who had, it is to be feared, been assisted to what they hoped might prove a profitable speculation, by the kanungo of the pargana, who purchased some of the lands.

14. Since the year 1863-64 the assessments of 34 estates in Gordhanpur (including six transferred from pargana Bhúkarheri) and of the six valley estates in Púr Chapár have been fixed year by year. In the spring of 1863-64, this tract was brought under direct management and its revenue administration was transferred to the Canal Department, but the retransfer was wisely ordered on the 16th October, 1865, and was effected in November. But before the transfer of the revenue charge of the tract, Captain Forbes, R.E., Executive Engineer of the Northern Division, Ganges Canal, had begun reclamation works in the afflicted tract.

These works were of three kinds :-

- 1st.—A protective bund, to prevent the waters of the Soláni from wandering over the country during the rains.
- 2nd.—Silting channels to carry river sand into the jhils and marshes, accessible to it by such means.
- 3rd.—Drainage lines to carry off the superfluous moisture.
- 15. The reports regarding the results of these works during the latter period of Mr. Martin's residence in the district, are somewhat contradictory; despair of any results seems to have alternated with extreme hopefulness, and gradually under the inspiration of the engineering skill and energy of Captain Forbes, the latter sentiment prevailed, and after Mr. Martin left the district it became stronger than ever. People began to consider what was to be done with the reclaimed land, the semindars and cultivators were sternly blamed for not breaking up fresh land that had been reclaimed and were threatened with the confiscation and separate assessment of their waste.
- 16. About this time the Commissioner, Mr. Williams, attempted to supply one of the most urgent wants of the pargana by the construction of roads from the west, south-west, and south, which were intended to meet at Gordhanpur. One of these roads was constructed from Toghlakpur and old and important village on the edge of the upland lying to the south-west of Gordhanpur; but a good deal of money was

wasted upon pontoons too large for the river, and the road was shortly afterwards allowed to fall into disrepair. There can be little doubt that Mr. Williams attempted to supply a real want, and it is discreditable to the district administration, that, from the first year of the British occupation up to 1869 not a single rupee was expended on roads in this pargana, and that the road from Toghlakpur to Gordhanpur was left unbridged to fall into total disrepair.

- 17. When the management of this tract was entrusted to me in the end of 1869, my first duty was to combat the views which I found prevailing on the subject of the Khádir. Government had in the previous year concurred in the Board's acknowledgment "that the deterioration of the land in the Soláni valley was not due to the opening of the Ganges Canal to which it had for many years been attributed." It was held that the reclamation of a large tract had been completed, that the drainage channels were of the greatest use, and that the confirmed evil habits of the people were the great bar to extensive breaking up of the generally reclaimed waste.
- 18. It was necessary to correct this impression. The 41 estates east of the Soláni were divided into three classes, 5 only were entered as reclaimed, 22 as improved, and 14 as little benefited. Further experience showed that even this statement was too favourable, and the village of Bulaqipur is the only one which could be rightly said to have been fully reclaimed, while the improvement of many in the large class entered as improved, turned out to be partial.
- 19. And the seasons were against the Khádir, a few dry years had held out hopes of prospective improvement, but three successive seasons of heavy rainfall discouraged enterprize and impoverished both zemindars and cultivators. A dam had been constructed to prevent flooding from the Soláni, but year after year, the dam was breached, and the crops behind it were swept away. In the villages entirely unprotected, the destruction was complete. A good deal of marsh had been silted up, and one estate Bulaqipur had been changed from a morass into a fairly fertile, though somewhat sandy, plain; but even the reclaimed lands were liable to inundation, which rendered the rain crops most precarious, while in comparatively few cases was the reclamation so complete that the land was fit for cold weather crops. And while the silting channels had been tolerably effective, the drainage lines had done little practical good. It is likely enough that they may have reduced the quantity of water in various jhils and marshes, but until drainage makes land dry enough for profitable agriculture, its practical value is small. In the years that followed, silting went on, the drainage channels were improved, but still not sufficiently deepened, and some progress was made, the people were encouraged by light assessments conditional on cultivation, to break up the culturable waste and neglect of orders was practically punished by raising the leases. This was done, it is hoped, in moderation, and in no case were the old assessments exceeded. And it is a reasonable enough that when a well-todo landlord, or wealthy community neglects cultivation, a fair charge for the value of the land, as grazing ground, should be made. And every effort was made, by the most considerate management, to encourage cultivation, to keep together the communities and hamlets which remained, and to encourage the settlement of hamlets in abandoned villages. Nominally farmed, these estates were in reality settled annually with the zemindars, who claimed and obtained their proper share in the lease. A fair jumma was fixed before the rains, in order that the limitation of the Government demand might oncourage the people to exertion, while in the event of the destruction of the rain crops, the estate was again gone over, and when requisite the demand for the year was summarily reduced. And, as a rule, the demand for the year was not reported until the revision had been made.
- 20. The whole system was, perhaps, informal, but the circumstances were exceptional, and in no other way could the tract be effectively managed. As Mr. Forbes discovered in Meerut, and as experience has shown in Musaffarnagar, trifling jummas

in the Khadir encourage inertness, rather than incite to exertion. The people saw that the man who made an honest effort to improve his property met with fair and considerate treatment; on the establishment of a hamlet the old semi-punitive demand was at once reduced; the destruction of a rice crop was considered not merely with reference to the area that was lost, but to the expenditure incurred in cultivating it. This will explain the otherwise remarkable feature of the jumma and cultivation statement at the close of this note, which shows that a reduction of the jumma went hand-in-hand with increased cultivation.

21. And generally this statement requires some commentary which may as well be given here. The relief given by Mr. Martin was needlessly great in many villages, whereas in some of the worst villages the relief was insufficient. The six Khádir villages in Púr Chapár, for example, were assessed at Rs. 80 instead of the old sum of Rs. 604. This excessive reduction in the case of uninhabited estates was hardly justified, and the direct management of 1273 fasli and 1274 fasli showed that the reduction had been excessive. On the other hand the villages whose calamities had been overlooked, gradually received consideration, and the revenue of this tract fell away until 1274 fasli as the following abstract shows:—

	Mr. Thornton's settlement.	Mr. Keene's settlement.	Mr. Martin's settlement.	1272.	19:	78.	1274.
25 estates in Gordhan- pur 6 estates in Par Chapar,	Rs. 7,777 604	Ra. 6,819	Rs. 3,898 80	Rs. 3,898	8,481	8. p. 8 11 7 6	Rs. a. p. 2,950 10 8
Total	8,881		3,978	3,978	3,708	0 5	8,147 4 5
	1275.	1276.	1277.	1278.	1279.	128	0.   1281.
35 estates in Gordhan- pur 6 estates in Púr Chapár,	Re. 3,745 250	Rs. a. p. 5,169 0 6 278 6 0	Rs. 5,023 325	Rs. 4,847 312	Rs. 3,569 230	3,61 20	36 3,584
Total	8,995	5,442 6 6	5,848	4,859	3,799	3,90	6 3,88

- 22. But the despair of 1864 gave place to the unjustified hopefulness of the years which followed, and the exceptional dryness of 1868, and the high prices of that year, made the produce of the Khádir more abundant and more valuable, and enabled it to pay a higher demand and gave a distinct impetus to cultivation. But it is very unfortunate that a transient gleam of prosperity should have been the ground of so andden an increase of the assessment. Had the assessments of Mr. Martin been equalized, but not materially increased, for the whole tract, the people would have had an opportunity of repairing their exhausted resources. But reduced leases were promptly raised, and the assessment of the tract in 1276 and 1277 fasli was about 70 per cent. in excess of the collections of 1274 fasli, and more than 50 per cent. in excess of Mr. Martin's assessment five years before.
- 23. When I received charge of the tract, a short experience of the neighbour-hood convinced me that although in the uninhabited uncultivated estates the value of the grazing and of the grass justified higher assessments than had been levied, general reductions were required, especially in the estates at a distance from the Solani which were suffering more and more from percolation. In 1278 fash the assessments of 15 estates were reduced, and those of 4 enhanced at a net cost of Rs. 501. In 1279 fash when further experience had brought a fuller acquaintance with the circum-

stances of the tract, the assessments of 14 more estates were reduced, further reductions were given in 4 cases, all the trifling enhancements of 1278 were cancelled, and in two cases the enhancement was changed into a reduction. The assessment for 1279 fasli was Rs. 1,060 less than that of 1278, and Rs. 1,549 less than that of 1277 fasli; it was Rs. 179 less than that of Mr. Martin.

- 24. The results of this moderation were for a time fairly satisfactory. Notwithstanding a succession of seasons of heavy rainfall, and the destruction of extensive areas of rice, the area under cultivation was not only maintained but was extended, hamlets were re-established, and for a time there appeared to be hope that decided improvement might be looked for; but it is to be feared that all that can now be said is, that matters are no worse than they were, and that the moderate extent of silting completed, and the comparative security provided by the embankment from Kuankheri to Amkheri, and recently extended to below Muhammadpur have made up for the increase of marsh owing to percolation.
- 25. For time has unquestionably proved the error of those who cherished the hope that the immense volume of water spread over the upland, and lost from the bed of the canal, would do no harm to the valley lands. Long before the days of the canal, the rain falling on the upland, trickled through the sandy strata, and appeared at the foot of the broken ground which separates the upland from the valley, but now the occasional springs had become frequent and perennial streams; apota of moisture had become extensive tracts of marsh, and high up the slope the soil had become saturated and spongy, fields in which a few years before sugarcane had been freely grown, had become too wet for rice. On either side the Soláni the appearance of the country was much the same, marsh in the lower fields, the efflorescent reh on the higher, had ruined once fertile land, nor was the injury confined to this tract. To the south of Gordhanpur, in the valley portions of Bhukarheri and Bhuma Sambalhera, village after village had been destroyed, and in the valley of the west as well as of the east Káli rivers, once productive fields were year by year coming under the influence of marsh and reh, and were steadily and rapidly falling out of cultivation. Colonel Morton's prediction had been amply fulfilled, percolation had increased as canal irrigation had been raised to the maximum, and the deterioration of the valley lands proceeded year by year, with the improvement of the upland. And it is in no way inconceivable that the percolation from the upland should reach the land lying to the east of the Solani. This river has not yet cut out for itself a deep channel, and Mr. Parker himself suggested that the water absorbed into the upland might easily percolate through sandy strata to the lands beyond the river. No other theory can account for the phenomena observed, the gradual increase of percolation in villages secure from the floods of the Soláni, or situated far beyond its influence. The Soláni cannot have destroyed the villages of Bhuma Sambalhera and of Bhukarheri, and the increase of jungle grass cannot account for the marsh and reh in the valleys east and west Káli of the rivers. One feature of this marsh attributed to percolation, or "choel" as it is termed in the neighbourhood, is that it is worst in the middle of the cold weather and not immediately after the rains. This is probably owing to the time which water takes to percolate through the strata which convey it to the valley, or it may be that the closure of the canal allows the water-bearing strata to empty themactives, and that it takes sometime to re-fill them. However, this may be, it is unquestionable that many fields which are dry enough when sown in November, become water-logged before the Christmas rains, and in December the moiature may be seen eating into the heart of a young wheat field, and destroying the crop.
- 26. Regarding the future of this tract I am unwilling to make any predictions; my own experience has supplied no fresh impressions since I reported on this tract in November, 1872. The necessity for adding four more villages to the "choel" tract under direct management, is a proof that the evils from which this tract was suffering had not diminished. The villages in question might, it is true, have been brought

under direct management some years before, but marsh had been steadily increasing, and alteration of the jumma became a necessity. Other estates were examined at the same time, but although I came to the conclusion that they could still pay the jummas assessed upon them, I should be very sorry that any decision of mine on the subject should give rise to the idea that reduction is not likely to be required. In this marsh affected valley, any arrangements for a term of years are out of the question. A village that could pay its way in 1872 may be an impracticable swamp in 1875, and the statistics of the four villages in which reductions were recommended are the best proof of the rapidity with which deterioration may advance.

						COLTIVATE	D ARBA.			
	• •	Jumma, 1841.	Jinmia, 1861.	1841.	1661.	Average of five years before 1872-73.	1871-72	1872-78.	1878-74.	New jumma.
,		Re.	Re.							Rs.
Abdipur Yahispur Farukhpur Hastmoli	••• ••• •••	. 700 278 400 144	788 <b>89</b> 0 <b>323</b> 90	583 257 386 78	584 156 321 98	930 194 274 61	306 206 253 53	271 189 <b>3</b> 60 <b>5</b> 3	270 187 260 80	500 275 275 60

And in these four estates it is likely that still further reduction may be required, for liable as they are to injury from Soláni floods, it is percolation which has destroyed their lower lands, and percolation is, it is to be feared increasing, and in this respect improvement of any kind is doubtful.

27. It is unquestionable that very considerable improvement has been effected by the silting channels, and there is good ground to hope that much land, when properly raised and then protected by the prolongation of the bund, may come under constant and successful cultivation. But as yet the drainage cuts have been of little practical advantage, and it still remains to be seen whether so few channels, even when deepened and cleaned, will be sufficient for the drainage of this extensive tract. In the meantime I can only repeat what I stated in my last detailed report, that, "until the people have some assurance that the crops which they sow and watch, will also ordinarily be reaped, it is needless to expect that they will show any great seal in breaking up the land, which has to some extent been reclaimed, but which is exposed to the full force of Solani floods. It has been too much the custom to talk of these Khadir lands, as if the work of reclamation had been completed. and a vicious population were, for its own evil ends, obstinately abandoning a fertile plain to the jungle. The Gujars of Gordhaupur are neither pattern citizens nor model agriculturists, but they are of more use in the Khadir than the best upland tenants, and in the matter of the swamped estates, they do not appear to have been greatly to blame. They held on to their villages as long as they could and only left them when they were ruined and sold up, as did the Chauháns."

"And the Gújars of the villages adjoining the swamped estates, are, with a few Tagas, the people to whom we have to look for the cultivation of the tract when reclamation shall be complete, and when protection from floods shall be given. Until then, we can only wait, and must take care that those proprietary bodies which still hold their ground are not over-burdened, so that when the swamped estates are fairly reclaimed and protected, there may be found in their vicinity tolerably prosperous communities, ready and able to break up the jungle which may be rendered fit for the plough. But until the land shall be both reclaimed and protected, no very decided progress can, in my opinion, be looked for."

28. Regarding the future revenue management of the tract, I can only recommend the greatest caution in raising assessments, and the greatest readiness in investigating complaints of increased injury. It is not necessary to grant remissions

merely because they have been asked for; and in this tract there is always the great est danger, that villages may be ruined before their circumstances are ascertained. And in this tract, at all events, it is likely to be more profitable for Government to lean to the side of considerate treatment. The people have become impoverished and dispirited, and I trust that when next a drought brings a passing gleam of prosperity to the Khádir villages, Government may rest satisfied with what it receives, and not raise its demand on account of a very temporary improvement.

- 29. The Khadir is so very different from the upland, that I trust I may be excused for noting a few peculiarities which are not, I have found, always taken into consideration:—
  - 1st.—A jumma is not necessarily severe, because it is not justified by even fairly accurate nikasis. When a community living in a well-to-do upland village owns a Khádir estate, the valley lands are often purposely left uncultivated, and are reserved for grass and grazing, the stated assets may be nil, but the advantage derived by the owners may be very considerable.
  - 2nd.—Whenever an estate becomes inhabited, the income from grass and grazing at once falls, for it is difficult to preserve grass in an inhabited estate of ordinary size, and a cultivator always cuts grass for his own use and grazes his cattle free, and in many cases no doubt extends these privileges to upland kinsmen. When therefore a zemindar settles a hamlet in a previously uninhabited property, it is not unlikely that at first his profits may fall off instead of increasing, and he both deserves and requires consideration.
  - 3rd.—An apparently flourishing cold weather crop, does not argue prosperity, even for that year, until the result of the rain crop, harvest is known. Rice is an expensive crop to sow; cane, cotton, and maize require much labour and watching; and the produce of rabi crops is in the Khádir small, while looking after them costs money. If then, 50 acres of rice crop have been destroyed in a village, paying Rs. 100 revenue, even a bumper crop in the cold weather in 100 acres would barely make up for the loss of the money expended in sowing rice, and the proprietor would have the greatest difficulty in paying his revenue. The estates belonging to Bakhshi Ram, Ját, of Bhúkarheri, in the extreme south have been assessed by me with constant reference to such losses, and considerable as is the income from grass, and fine as the cold weather crops, are, I do not think that this landlord has had profits more than commensurate with his expenditure and the risk he has incurred. Bakhshi Ram acquired an indifferent character during the mutiny, but he was acquitted on appeal, and of late years he has worked well in the valley.
  - 4th.—Injustice has frequently been done by refusing to listen to complaints unless the cultivated area had been reduced, or by making reductions in assessment only in proportion to the reduction in the cultivated area. Rohalki was treated with distinct injustice, and the people were so stupid that they never explained the deterioration; and as neighbouring villages seemed to require so much more attention, it was devoted to them. But their case turned out to be a perfectly good one, their rich rice land had been destroyed, but the area under cultivation had been maintained by the ploughing up of inferior sandy land on the other side of the village. For land worth Rs. 3, per acre, land worth Re. 1 had been substituted, and relief was clearly called for.
  - 5th.—The appearance of Khadir fields in November, is no criterion of the state of the land a month or two later, when, as has been stated, percolation begins to act, and marsh eats into fields in a most remarkable manner.

30. With reference to the instructions contained in the Board's letter to the Commissioner, No. 168 of the 4th April, 1874, I would first repeat a paragraph written in November, 1872, with reference to the four villages added in that year to the list of estates leased annually. "It may be generally stated, with confidence, that in the Ganges Khádir tract, no assessment should fall at a higher rate than Rs. 2 per acre of cultivated land, if the area under cultivation has reached its probable limit. In only one estate, in pargana Gordhanpur, has a jumma falling at a rate in excess of Rs. 2 been assessed, while in only eight has the rate of assessment per acre of cultivation exceeded Re. 1-8. In three of these the assessment has been already reduced, and in one more, reduction is now recommended."

"Indeed, it would appear from the assessments in this pargana, that a first class estate should, under ordinary circumstances, pay a rate on the cultivated acre of Re. 1-4 to Re. 1-12; a 2nd class estate, a rate of Re. 0-14 to Re. 1-4; a 3rd class estate, a rate of from anuas 10 to annas 14." Further experience has led me to modify these views. In the few Khadir estates in which money rents had been fixed, tenants have been forced to relinquish them, and I know of only one estate in which a rent-rate so high as Rs. 3 per acre is now paid.

31. For first class estates I consider a rent-rate of annas 8 per kucha bigha, or Rs. 3 per acre, a full one for any estate in the Khádir, even if sandy fields be excluded, and I would substitute for the rates formerly suggested Re. 1-4 to Re. 1-8 for a 1st class estate; Re. 0-14 to Rs. 1-2 for a 2nd class estate, and annas 10 to annas 12 for a 3rd class estate.

A good village, with fair proportions of cane and rice land, might be called 1st class. A fair village, with little or no cane, would be 2nd class. The many poor, ill-populated, ill-cultivated townships would come under the 3rd class. Karnpur, Rohalki, Dharmapur, and Abdipur, are the only estates under direct management, which can be placed in the 1st class, and it is to be feared that they are gradually passing out of it.

These rates are supported by no money rates, but they have been proved to be not too light by the relinquishment of similar rates, and by the break down of villages assessed at higher rates. They are, I believe, applicable generally to the whole Khádir from the Saháranpur to the Meerut boundary; and I believe that except in special cases rates of Re. 1-4 for 1st class villages, Re. 1 for 2nd class villages, and annas 12 for 3rd class villages are as high rates as in the present state of the Khádir it is prudent to collect from the cultivated land. The miscellaneous income varies, of course, so greatly, that it would be impossible to make any useful remarks regarding assessments with reference to it, beyond what has been already pointed out in paragraph 29.

- 32. The valley portions of Bhúkarheri and Bhúma Sambalhera are similar in character and in their circumstances to Gordhanpur. Marsh is year by year increaseing just below the upland, and further east reh, and the increasing difficulty of retaining cultivators in making their successful management more and more difficult. In Bhúkarheri there is, with the exception perhaps of Dhariwála, no good Khádir village: in Bhúma Sambalhera, there are several, and in this pargana it is necessary to distinguish between reduced cultivation due to neglect, and that owing to real difficulties.
- 33. The notes in the pargana books give some useful information, and even when circumstances may change they may furnish a clue, to the state of the village. In bringing this memorandum to an end, I would strongly recommend my successors, in the management or assessment of this tract, to proceed with caution. The Ganges valley is very different in nearly every respect from the upland; it requires constant attention, and in order to understand it properly some local knowledge is required

ard serious enhancements should be delayed until the officer imposing them has had time to acquire some knowledge of the tract. And when the landlords by settling cultivators and ploughing up land, have done their utmost to comply with the wishes of Government, they should be treated with the greatest consideration. As far as I can see, efficient management will for many years to come be shewn by a gradual extension of the area under cultivation, rather, than by any addition to the land revenue; but if difficulties increase, even the most effective revenue management may fail to maintain the present low standard in this respect.

34. Should any fairly dry estates come under direct management as distinguished from annual leases, I would recommend that the experiment be tried of planting babul trees, which may be said to be one of the great wants of the upland.

At present the prospects of the Khadir lands are somewhat gloomy. Marsh is steadily increasing, the silting channels and the Soláni dam to the north have furnished some fresh land for the plough, but marsh is on the whole extending, and every depopulated hamlet injures the villages beyond it. Many estates, once far removed from the depredation of wild animals are now on the margin of an increasing swamp, which harbours innumerable pig and hog deer, and furnishes shelter for panthers and occasionally tigers. And the great enemy of this tract, the Ganges Canal, is increasing the injury it has caused to it year by year. A good supply in the Bhúkarheri rajbaha and the new distributary which now runs along the edge of the Bhúma Sambalhera upland will inevitably make Khádir management more difficult than ever, by attracting cultivators from the unprofitable valley lands; and it is likely that year by year cases of distress will have to be investigated, and assessments will have to be reduced. It is to be hoped, therefore, that it may not be too readily assumed that the complaints that may be made are necessarily untrue. Some officers are afraid to take up such complaints for fear that applications for reduction should be encourged, but a short experience of this tract should enable any officer to distinguish between a fair claim and a groundless one, and unless complaints are investigated it is to be feared that in future, as in past years owners will be sold up, and hamlets will be depopulated by the ruthless attempt to collect the old revenue from ruined lands, and that the unavoidable difficulties which from such serious obstacles in the way of effective management of this tract, will be increased by a policy of harshness which will certainly prove in the end to be unwise as well as cruel and unjust.

ALAN CADELL,

Late Settlement Officer of Muzaffurnogar.

28th September, 1875.

No. 1.—Statement showing cultivated area and jumma of the swamped estates in parganas Gordhanpur and Pir Chapir, district Muzaffarnagar.

1				1264	FASLI.	1265	Pasli.	1266 ]	Pasli.	1267	Fasli.	1265	Fasli.
lo.	Par- gans.	Village.		Culti- vated area.	Jumms.	Cultivated	Jumms.	Culti- vated area.	Jumms.	Culti- vated area.	Jumma.	Cultivated area.	Jumm
-			_		Re.		Re.		Rs.		Re.		Rs.
	r	Ibrahimpur		457	500	449	500	314	500	214	500	856	50
2	i		•••	604	700	594	700	576	700	588	700	560	70
3		****	•••	36	50	81	50	16	50		50	13	5
4				171	190	149	190	151	190	83	190	94	19
5	. 1			178	62	92	62	•••	62	<b> </b>	62		•
- 1			•••	100	155	33	155	•••	155		74		7
6	İ		•••	311	100	188	100	88	100	157	100	165	10
7	1	D	•••	203	215	151	215	129	215	115	215	110	21
8	ļ		•••		43	112	43	85	43	71	48	56	
9	i	D. 1 1 1		111	240	167	240	154	240	156	240	156	3
0			•••	168	220	191	220	1:7	220	179	220	136	29
1	1	l n	•••	229		•	1	75	100	71	100	48	10
3		1	•••	75	100	74	100	172	254	181	254	97	9
8			•••	230	254	219	254	69	_	27	216	19	2
4			•••	111	2:6	54	2 6		¥16	1 -			, ž
5	ļ		•••	160	79	78	79	89	79	89	79	47	l
6			•••	106	77	***	77	1	77	8	12	. 7	١.
7		Dharampur	•••	394	500	388	500	88	500	388	500	885	5
8		Daudpur	•••	212	186	44	186	14	116	8	123	16	1
•	0.4	Dhamat Sanian		195	174	195	174	34	174	19	174	39	1
0	GORDHAKPUR.	Dhamat Gujran		109	81	109	81	11	81	42	81	71	İ '
ı	ē	Ruhalki	•••	366	652	372	652	810	652	359	652	871	6
2	Š	Zindawala	•••	28	81	•••	81	4	81	3	81	6	1
3	!	Saipur	•••	265	800	250	300	96	300	78	309	70	
•		Sikandarpur	•••	359	385	352	885	215	385	227	835	146	3
5	İ	774	•••	9,	174	89	174	97	174	74	144	94	,
		Charles and	•••	49	108		103	5	108	24	108	39	1
7	!	A 1	984	62	372	22	372	44	872	8	372	54	8
		B 1-1		270	400	251	400	288	400	272	400	273	4
	i	77	•••	37	205	86	206	16	206	20	127	23	
	- 1	P		569	984	643	984	596	984	579	984	596	9
· 1		V-1:1-	•••		1	199	_	88	339	55	200	76	2
1		771	•••	156	339	82	339	62	313	75	813	48	3
3	i	45 43	•••	144	318	429	813	462	425	448	425	465	4
3		Muhammadpur	•••	480	425	191	425	114	200	116	200	122	
4		•		167	200		200		125		54	1	
5	j	1 -	•••	240	126	240	126	•••	200	•••	74	•••	
•		N	•••	6	200		200	•••	138	1	78		
7		1	•••	974	183	174	183	6	115		64	•••	
8		-	•••	150	115	150	115	947	378	252	378	281	3
9	Ĺ	Yahiapur	•••	251	878	248	378	241	3/0	202		201	<b></b>
		Total of Parga Gordhanpur		8,081	9,978	6,964	9,978	5,167	9,978	4,972	9,212	5,009	9,2
	_	Bhamanwala							67		67	9	
0	اند	0.1.11	***	86	67		67		65	14	65	111	
1	CEAPER.	01	***	43	65	10	65	10	50	3	50	6	
2	4	•	•••	127	50	15	50		256	104	256	93	2
8		} -	•••	158	256	130	256	82	,	24	50	40	
•	Pta		•••	14	50	2	50	11	50		116	_	1
5			•••	37	116	•••	116	8 	116				
		Total of Parga Pur Chapar		414	604	157	604	120	604	145	604	158	6
		GRAND TOTAL		8,495	10,582	7,191	10,582	5,307	10,582	5,117	9,816	5,167	9,8

No. 1.—Statement showing cultivated area and jumma of the swamped estates in parganas Gardhanpur and Púr Chapár, district Muzaffarnagar—(concluded.)

	•				1278 F	ASIJ.	1279	Fabli.	1980	Fasiji.	1281	FAMIL
No.	Par- gana.	Viii	age.		Cultivated area	Jamma.	Culti- vated area,	Jumma.	Culti- vated area.	Jumma.	Culti- vated area,	Jumma,
_		<u></u>				Rs.		Rs.		Rs.		Ra,
3,	ſ	. Ibrahimpur	***	•••	208	175	261	125	159	150	271	150
2	1	Abdipuz	•••	•••	371	788	396	788	271	550	270	. 500
3	1	Udiawala	***	***		25	•••	25	17	25	23	25
4.		<b>A</b> iki		•••	105	148	87	125	92	125	103	125
.5		Bahlolpur	•••	•••	•••	. 62	***	. 62	•••	. 62	440	50
6		Baikuntpur	•••	•••	70	35	104	20	6	50	•••	20
7.		Bulaqipur	***	•••	193	100	200	100	124	190	184	100
8	1	Barbiwala	**	•••	130	175	137	100	187	150	112	150
9	1	Bansliwala	***	•••	. 24	50	61	50	37	50	50	40
10		Bhadaulah .	***	•••	97	. 60	96	60	74	50	71	60
11		Bhadauli	•	•••	- 79	20	87	50	28	20	17	20
18		Panchli		•••	79	40	75	40	52	50	38	50
13		Jhinwarheri	•••	•••	42	25	42	25	66	25	66	95
34	i ·	Jegawola	•••	•••	31	216	85	150	28	150	27	150
15	1:	Chamrawala	•••	•••	8	100	16	70	18	50	20	50
16 17	i	Husainpur	***	***	. 6	15	13	12	8	20		20
18		Dharampur	bee	•••	: 315	550	367	450	279	450	295	450
19	50	Daudpur	•••	•••	***	25	•••	25	2	25	8	25
20	GORDHANPUR.	Dhamat Sanian	•••	۸.	21	-80	18	40	1	40	•••	40
21	8 1	Dhamat Gujran	***	. ***	•••	60	***	20	***	80	***	30
	ટુ	Ruhalki	•••	-44	405	650	398	500	350	500	274	500
22	ŀ	Zindawala	186	•••	19	70	21	50	97	50	31	50
-: 1	1	Saipur	•••	•••	50	50	50	40	41	<b>5</b> 0 .	40	50
24		Sikandarpur	•••	•••	107	100	100	. 03	66	190	65	20
		Hastmoli	•••	•••	59	90	58	. 80	53	60 .	80	•
26 27		Shahdara	. 000	•••	43	€0	44	25	46	30 .	58	30
٠ ١	. !	Almawalah		•••	49	100	69	100	72	50	68	50
28		Farakhpur	940	•••	265	322	253	822	260	275	260	275
30	1.	Faridpur	***	•••	72	-87	73	30	51	50	58	50
31	i	Karanpur	•••	•••	581	960	483	700	455	700	415	700
32		Kaliwala	***	•••	67	70	81	50	76	50	80	50
88	1	Kherki Mathana	•••	•••	46	40	45	30	25	30	10	31
34			•••	•••	271	225	246	225	. 914	200	156	200
85		Muhammadpur	•••	•••	141	70	126	70	139	70	71	70
36		Mahpur	•••	•••	8	54	•••	50	***	50	•••	50
37	1	Marakhpur Narmmazrah	•••	•••	62	20	21	20	***	34		24
38	1		•••	•••	44	40	52	30	6	30	•	80
39	1	Naunpne	•••	•••	•••	50.	•••	50	100	50	•••	50
-		Yahiapur	•••	•••	208	890	206	390	189	275	187	275
		Total of pargan	a Gordhan	gur,	4,225	6,187	4,191	5,189	3,514	4,816	8,257	4,694
40	r	Bhamanwala			18	25	10	15		15	11	15
41	₩ {	Soheli	•••		19	85.	23	25	19	85	23	85
42	CHAPÉR,	Shamsnagar	•••	•••	11	80	19	50		80	•••	50
43		Sherpur	•••	•	63	40	62	40	71	50	71	50
44	Por	Kalewala	•••		13	.50	17	50	8	50	5	50
45	۵ ز	Mandenwala	•••		***	50.	•••	50	3	50	3	. 50
		Total of pargan	a Pür Chaj	p <b>ár</b> ,	124	290	128	230	114	250	· 113	250
		GRAND To	rat ·		4,349	6,427	4,814	5,889	3,628	5,065	3,370	4,941

( lxiii )

General parganah statement of areas and revenues of pargana Purchapar, district Mucaffarnagar.

Pargana.	Number.	V	'illages.			Highest revenue of 1st settle- ment.	Highest revenue of 2nd settle- ment.	Highest revenue of 3rd settle- ment.	Highest revenue of 4th settle- ment.
						Rs. a. p.	Rs. a, p.	Rs. a. p.	Rs. s. p.
ŗ	1	Ahmadpur	•••	•••	•••	•••	300 0 0	400 0 0 5,250 0 0	443 0 0 5,048 0 0
ł	3	Barlah Baserah	•••	***	•••	***		***	***
- 1	5	Bucha Rahlolpur	•••	•••	•••	•••	•••	300 0 0 400 0 0	300 0 0 550 0 0
- 1	6	Bhambaori	***	•••	***	***	***	400 0 0	300 0 0
1	7	Bhujaheri	•••	•••	•••	444	490 0 0	650 0 0 425 0 0	650 0 0 850 0 0
l	8	Bhuraheri Bhaisani	•••	•••	•••	•••	400 0 0	570 O O	570 0 <b>0</b>
i	10	Bhainsarheri		•••	•••	•••	1,200 0 0	1,025 0 0	1,025 0 0 500 0 0
ļ	11 12	Patheri Parai	***	•••	***	•••	25 0 0 483 0 0	500 0 0 483 0 0	500 0 0 1,450 0 0
j	18	Pur	•••	***	•••	•••	2,100 0 0	1,875 0 0	1,375 0 0
j	14	Phalaudah, mahál Ditto ditto		•••	`•••		•••	3,925 O O	3,625 0 0
1	15 16	Táipur	•••	•••	***	•••	•••	800 0 0	800 0 0
j	17	Tejalherah, mahál	Gujaran	•••	•••	•••	•••	***	•••
- 1	18	Ditto ditto Tikaulah	Jhojha 	•••	•••	•••	•••	400 0 0	495 0 0
ł	20	Jamálpur	•••	•••	•••		800 0 0	490 0 0	443 0 0 176 0 0
. !	21 22	Jhabarpur Chapar	•••	***	***	•••	•••	125 0 0 2,501 0 0	175 0 0 2,900 0 0
j	23	Chapta	•••	***	100	100	1,000 0 0	1,000 0 0	1,000 0 0
. 1	24	Khojah Nagla	•••	•••	•••	•••	•••	800 0 0 250 0 0	800 0 0 250 0 0
	25 26	Doheli Dhamat	•••	•••	•••	•••	***	250 0 0 650 0 0	650 0 0
- 1	27	Raepur Jhojha	•••	•••	***	•••	<b>350 0</b> 0	348 0 0	385 0 0 1,301 0 0
1	28	Ratta Nagla Salempur	•••	•••	•••	•••	•••	1,301 0 0	280 0 0
i	30	Simbhalki	•••	•••	•••	•••	250 0 0	<b>600 0</b> 0	600 0 0
př.	31	Simarthi Suaheri, mah <b>é</b> l 19	biswas	•••	•••	•••	1,600 0 0 800 0 0	400 0 0	850 19 0 443 0 0
4	38	Ditto ditto 1	ditto	***	***	989 ·			
봉석	34	Shahjahanpur	***	•••	•••	•••	100 ● 0	400 0 0 300 0 0	443 0 0 800 0 0
PURCHAPAR.	35	Shakarpur Tughlakpur	***	•••	•••	•••	***	1,700 0 0	1,700 0 0
~	87	Abdulpur	•••	•••	•••	***		220 0 0	920 0 0 549 0 0
ì	38 39	Kasimpur Kutabpur	•••	***	***	***	1,600 0 0	<b>549</b> 0 0	•••
i	40	Kamberah	•••	•••	500	•••	•••	850 0 0	700 0 0
I	41	Kaulaheri Khindaria	100	•••	•••	•••	1,000 0 0	575 0 0 900 0 0	875 0 0 920 0 0
	43	Khudda	•••	•••	•••	•••	2,100 0 0	1,875 0 0	1,875 0 0
Ì	44	Khai Kheri	•••	•••	•••	•••	5,000 0 0	3,600 0 0 1,060 0 0	8,600 0 0 1,060 0 0
1	45 46	Kailanpur Jalálpur Gedhna	•••	•••	•••	•••	•••	500 O O	625 0 0
į	47	Ghumaoti	•••	•••	•••	ė ė	•••	500 <b>0</b> 0	625 0 0 290 0 0
	48	Lakhnauti Mandhla chak shin	nali	•••	•••	•••	1,100 0 0	980 0 0	850 0 0
	50	Ditto ditto jaun	bi	•••	•••	•••	•••		180 0 0
. !	51 52	Mirzapur <i>urf</i> Sháh Mehraepur		•••	•••	***	250 0 0	180 0 0 250 0 0	900 0 0
	53	Masrullahpur	***	•••	•••	***	***	300 0 0	800 0 0 500 0 <b>0</b>
1	54 55	Naghia Mehardad Nuhpur	***	•••	101	•••	<b>3</b> 00 0 0	450 0 0 0 400 0 0	443 0 0
i	56	Nurnagar	•••	•••	***	•••		800 0 0	800 0 0 580 0 0
ŧ	57	Harainti	999	004	•••	•••		1,100 0 0	860 <b>U</b> U
1					İ				
i	j		<b>T</b> P.	otal					•••
1			10	, ngr	***	:			
		Revenus	·FRBR BST/	ATES.					
	58	Chandan	•••				•••	•••	***
ί	59		•••	•••	***	•••			•••
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			ጥ	tal	-				***************************************
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							[	***	146

	20 21 23 28 24 25 26 27	Jamanpur Jhabarpur Chapur Chapur Chapra Khojah Nagla Doheli Dhamat Raepur Jhojha	000 000 000 000 000 000 000	900 900 900 900 900 900	000 000 000 000 000 000	314 175 2,900 850 775 290 875 885	0000000	0000000	\$43 810 8,447 770 700 288 487 416	000000	000000	320 300 4,200 900 800 300 500	00000000	•••••	220 308 4,278 924 818 312 625 401	00400000	00000
PONORAPAE.	29 30 51 32 33 84 35	Ratia Nagla Salempur Simbalki Simarthi Suaheri mabál 10 Ditto ditto 1 Sháhjahánpur Shakarpur	an disto	994 986 988 869 969 966	900 ( 900 ( 900 ( 900 ( 900 (	7,176 230 600 851	0 0 0	0000	1,309 398 847 8+6 381 219	0000	00000 00	1,310 4°0 750 900 320 220 750	00000	000000	1,818 409 762 812 805 16 230 256	0 0 0 10 10 0	0000000
Fuj	36 87 58 39 40 41 42	Tughlakpur Abdulpur Kasimpur Kutabpur Kamberah Kanlaberi Khindaris	000 000 000 000 000 000	100 000 040 101 000	900 900 190 900 900	1,867 920 849 9,100 800 578 790	0 0 0 0 0	0000000	1,849 401 762 9,100 707 698 729	0 0 0 0 0	000000	1,899 400 800 2,400 705 750	0000000	0000000	14,35 402 808 3,415 728 756 779	0 . 8 0 0 0 0	
	48 44 45 45 47 48 49 50	Khudda Khai Kheri Kallaupur Jalaipu Godhna Ghumaoti Lakhnauti Mandhia chak shir Dicea dicea Ja	ort orti	900 900 900 900 900 900	000 000 000 000 000 000	2 925 3,019 1 060 625 825 250 850	0 0 0 0	0 0 0 0 0	2,978 922 1,213 583 355 865	0 0 0 0	0 0 0 0	2,800 8,250 900 1,500 600 300 814	0 0 0 0	0 0 0 0	2,816 3,286 906 1,318 610 364 419	12 0 0 0 0	0 0 0 0 0
	51 53 58 54 55 56 67	Ditto ditto Jas Mirzapur arf Shá Mehraepur Nagalahpur Nagala Mehardad Ruhpur Nuruagar Harainti		600 600 600 600 600 600 600	948 944 999 909 100	180 700 300 450 987 580			956 700 809 841 120 716 718	0		200 850 86 340 240 450	0 0 0 0		414 240 851 84 346 344 456 763	0	•
1		200000	***	744	444		•	٠	'''	Ū	Ϊ.	750	U	•	140	•	1
			4	otal			_	_	56,343	8	•	59,280	0	0	60,070	4	-
	58 69	Ravesui Chandan Megha	-runn mer		*** ***	100	_		56,348		•	59,280 150 250	0	0	*	4 10	

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pargana Púrchaper, district Muzaffarnagar—(concluded.)

<del>*****</del> ****					OT			Αı	SESSABLE			enne	ende Arce	ares
	•		<u>,</u>			C	ulturab	le.		Cu/tivaled		ent rev	present revenue assessable area	present revenue cultivated area
Proposed jame.			Total area in acres.	Revenue-free.	Otherwise barren.	Old waste.	Groves.	Becent fallow.	Irrigated.	Dry.	Total cultivated.	Incidence of present revenue on total area per acre.	Incidence of pres on total asser per acre.	Incidence of presson total culti
Rs.	8.	p.										Rs. a. p.	Rs. a. p.	Rs. a p.
5,200 8,800 200 500 440 1,200 1,200 1,200 1,200 2,700 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 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1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100		000000000000000000000000000000000000000	114 2,284 7,327 632 589 713 1,233 847 748 782 454 995 2,982 454 1,408 859 1,305 615 2,841 890 314 890 314 890 615 329 985 1,015 719 34 215 175 1,982 806 7,003 1,548 541 706 884 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 2,094 1,545 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							Rs.	8.	•	Rs.	a. p.	Rs.	a. F	١,	Rs.		p.	Rs.		p.
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	*	lllahabas	•••	•••	•••	•••	50	0	0	200	0 0	200	-	0	200	0	•	467 419		0
	3	Baroki	***	•••	•••	•••	40	0	0	170	0 0	194 250	-	0	194 250	0	0	438	Δ.	
	i   1	Bhuspur	***	•••	•••	•••	60	0	0			2,600		3	2,800	•	0	2,914		۰
	5	Bhopah Bhukarheri	***	***	•••	•••	3,490 4,000	0	0	**		3,200		•	3,865	4	0	4,514	0	0
	7	Bedaheri	•••	•	•••	•••	1		Ū			1 -			325	0	0	395	0	0
	8	Berah Thur	···	. •••	•••	***	1,250		0			1,350		0	1,400	0	0	1,299	0	•
	9	l		l Sambalhera	•••	***	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ī	•						,					
	10	Ditto	ditto	Sayyidan	•••		858	0	0	858	0 0	1,110	0	0	1,110	0	0	1,538	•	•
	11	Disto	ditto	Asgharali	•		)													
	12	Belrah	•••	•••	•••		2.100	0	0		•	1,600	0	0	1,800	0	0	1,663	0	0
	13	Tissah	•••	•••	•••		751	0	0	2,100	0 0	2,100	0	•	2,100	0	0	2,386		0
	14	Teorah	•••	•••	•••	•••	400	0	0	400	0 0	400	0	0	400	0	0	2,418	0	0
	15	Ohachrauli	***	•••	•••		1,700	0	0	1,000	0 0	1,000	-	0	950	0	0	1,205	•	•
	16	Chaurawalal	1	•••	•••	<b></b> ·	1,100	0	0	1,200	0	1,200		0	801	0	0	1,167 470	0	
	17	Daryabad	***	••	•••	•••	155	0	0	350	0 0	360		•	300	0	0	228		•
1	18	Daryapur	***	***	***	•••	50	0	0	200	0 0	200		0	202	0	0	361	0	_
	30	Daulatpur Dhiraheri	••• .	•••	000	***	300	0	0	350 865	0 0	865	_	0	865	0	0	1,186	-	•
1	21	Raepur	•••	•••	•••	**	580 500	0	0	300	0 0	300			300	0	0	298		•
	22	Rahmatpur	•••	•••	•••	•••	1,500	8	0	1,200	0 0	1,200		0	900	0	0	860	0	•
	23	Rasulpur	100	•••	•••		1		Ŭ	.,		1	••		475	0	0	473	•	•
1	24	Rahkarah	•••	•••	•••	***	600		0	600	0 0	600	0	0	600	0	0	1,085	0	•
BHUKARHRI.	25	Sukkartar		***	•••	•••	250	0	0			250	0 (	0	250	0	0	370	0	0
E E	26	Sukkartari	•••	•••	•••	***	440	0	0			440	0	0	440	0	C	825	•	•
	27	Sikandarpur	•••	•••	•••		1,500	0	0	٠.		1,325	0	0	1,323	12	0	725	0	0
	28	Sikri	•••	•••	•••	•••	1,000	0	0		•	1,800	0 (	0	1,800	0	0	3,701	0	-
	29	Shahdarah t	an gar	•••	•••		20	•	0	500	0 0	500		P	350	0	•	411	0	-
	30	Firospur	•••	•••	•••	•••	125	0	0.	125	0 0	125		0	125	0	0	280	_	_
	31	Kazipur	***	***	•••	•••	600	0	0	600	0 0	600	0	0	650	0	0	829	•	•
	32	Karerah mal			•••	•••	)	_	_		• •	000	0		900	0	_	1,242		•
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	35	Kari			•••	•••	35	0	0.	150	0 0	70	0		70	0	0	214	0	•
	36	Kasauli	***	•••	•••	•••	30	0	0	181	0 0	268		0	268	0	0	182	0	0
	87	Kishanpur	•••		10,	***	700	0	0	700	0 0	700		0	700	0	0	768	0	•
	38	Kakralah		•••	•••		500	0	0	442	0 0	542	0	0	542	0	0	774	0	0
	89	Kakrauli	•••	•••	•••	•••	1,151	. 0	0	1,151	0 0	1,151	0	0	1,151	0	0	1,858	•	0
	40	Khai khera	***	•••	•••	•••	250	0	0	250	0 0	250	0	0	250	0	0	480		0
	41	Kharpaur	•••	•••	•	•••	80	0	0	90	• 0	90	-	0	90	0	0	475	-	0
	42	Khokni Gadlah	•••	***	-00	•••	600	0	0	1,900	0 0	1,900	_	0	400 1,900	0	0	1,914		0
	44	Gadwarah	•••	***	***	•••	1,900	-	0	1,200	0 0	1,300	-	0	950	0	0	592	0	0
	45	Lalpur			•••		1	••			- 0	.	••			••		3		0
	46	Mahmudpur	majra	h	***	***	1,800		0			1,900		0	1,200	0	0	687		0
	47	Malpurah	***	•••	•••	••• ,	600	0	0	650	0 0	660	-	0	781	0	0	833 024		0
	48	Mimlakheri Mornah	•••	***	***	***	400	0	0	400	0 •	400	0 9	•	400 45 <b>5</b>	0	0	746	0	
·	50	Nirgajni	•••	•••	•••	***		••	0	1,330	0 0	1,330	0 (		1,100	•	0	781	•	
Ì	51	Nalherah	•••	***	***	•••	1,275	0	0	1,275.		1,272		0	1,275	0	0	1,077	-	•
Í	52	Nalheri	•••	•••	•••	994	280	0	0	350	0 0	350	-	0	850	0	•	404	0	
	58	Wazirabad	•••	•••	•••	•••	1,200	0	0	900	0 0	900	•		900 8 <b>2</b> 0	0	0	949 883	0	
ŧ	54	Yusufpur	•••	***	•••		850	0	<u> </u>	850	0 0	800		_						_
	1		Parg	ana Total		•••	•			•••	•		••	١	•	••		48,202	7	•
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Pargane Bhukarheri, district Mucaffarnagar.

8	10	strict Mucapara	Nor Assue	-		Asen	SABLU.			of present on total	of present on total	of present on total
enue	last	ma.	0 4	-	Culturab	le.	C	ultivated	i.	of pu	on a	id as
t rev	g g	d Jan	e fre	waste.	1	<b>t</b> g		1	j 8.	1	I - 7	
Highest revenue 7th settlemest.	Average years.	Preposed Jama. Total area in ac	Revenue free. Otherwise barren.	Old WR	Grove <b>s.</b>	Recent follow.	Irrigated.	Dry.	Total cul- tivated	Incidence revenue area per	Incidence or revenue assessable acre.	Incidence o revenue cultivated scre.
Rs. a. p	Rs. a. p.	Rs. a. p.					·			Rs. a. p.	Rs. a p.	Rs. a. p.
1,450 0 0	1,467 0 0 556 8 0	1 /	1 1	96 26 96 136	4	26	837	87 559	924 569	0 7 2	2 1 6	9 2 7
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600 0 0	608 8 0	720 0 0 1,59	2 5	189		1	480	871	851	0 7 3	0 11 1	0 13 8
2,660 0 0	2,695 0 0	1		1	16	21 101	959 2,598	505 558	1,464 3,156	1 10 8	1 12 7	2 3 8 2 5 6
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3,992 6 0	3,046 0 0 1.409 8 0	1 -,-	7 1	59 5 54 64	13	5	1,429 557	455 640	1,884 1,197	2 0 4	1 6 4	176
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	<u> </u>		_	1	1	1		. 1		·	·	

## General pargana statement of areas and revenue

Pargan.	Number.	Village.		Highest revenue of 1st	Highest revenue of 2nd settlement.	Highest revenue of 3rd settlement.	Highest revenue of 4th	Highest revenue of 5th settlement.	Highest revenue of 6th settlement.
£	,	Antwarab	•••	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Jadii Jársier.	23 34 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 11 15 16 17 18 22 23 24 25 6 27 28 29 30 1 32 23 33 4 35 36 37 38 39 40 41 42 43 44 55 55 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Anti		417 0 0	701 0 0 600 0 0 900 0 0 0 0 0 0 0 0 0 0 0 0	708 O O O S57 O O S50 O O O O O O O O O O O O O O O O O O O	595 0 0 800 0 0 0 150 0 0 150 0 0 0 150 0 0 0 150 0 0 0	750 0 0 0 150 0 0 150 0 0 0 150 0 0 0 150 0 0 0	1,122
t	70 71	Ditto Mobarik Ditto Mahasingh	•••	•••	•••	1,376 0 0	1,375 0 0	1,001 6 0	1,102 0 0 1,001 0 0
		Total		•••		***	•••		56,152 7 7

41.	e in		)		OT SABLE.			Ass	essabli	).		p ber	2 4	e it. e
	last 5 y	<b>.</b>	1 BCT 08.	ن	arren.	(	Cultura	He.		Cultiva	ted.	f presen	presen	presentetal c
Highest revenue of 7th settlement.	Average of last 5 years.	Froposed jams	Total area in	Revenue-free.	Otherwise barren	Old waste.	Groves.	Becent fal-	Irrigated.	Dry.	Total cul-	Incidence of present revenue on total area per acre.	Incidence of present re- venue on total assessa- ble area per acre.	Ancidence of present re- venue on total culti- vated area per acre.
Rs. s. p.  1,541 0 0  1,150 0 0  499 0 0  1,100 0 0  1,100 0 0  1,100 0 0  840 0 0  1,200 0 0  850 0 0  950 0 0  1,100 0 0  1,100 0 0  1,100 0 0  1,100 0 0  1,100 0 0  1,100 0 0  1,100 0 0  1,100 0 0  1,100 0 0  1,100 0 0  1,500 0 0  1,500 0 0  1,548 0 0  230 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,548 0 0  1,549 0 0  2,400 0 0  1,549 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0  2,400 0 0 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### General Pargana Statement of Areas and Revenues

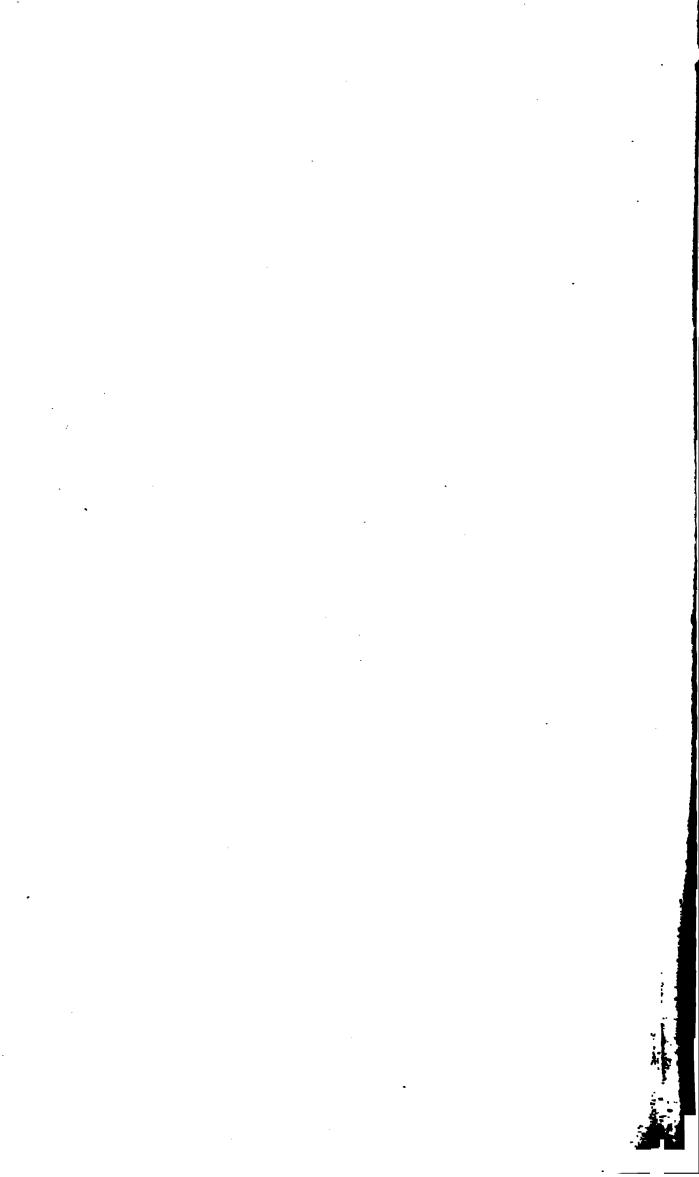
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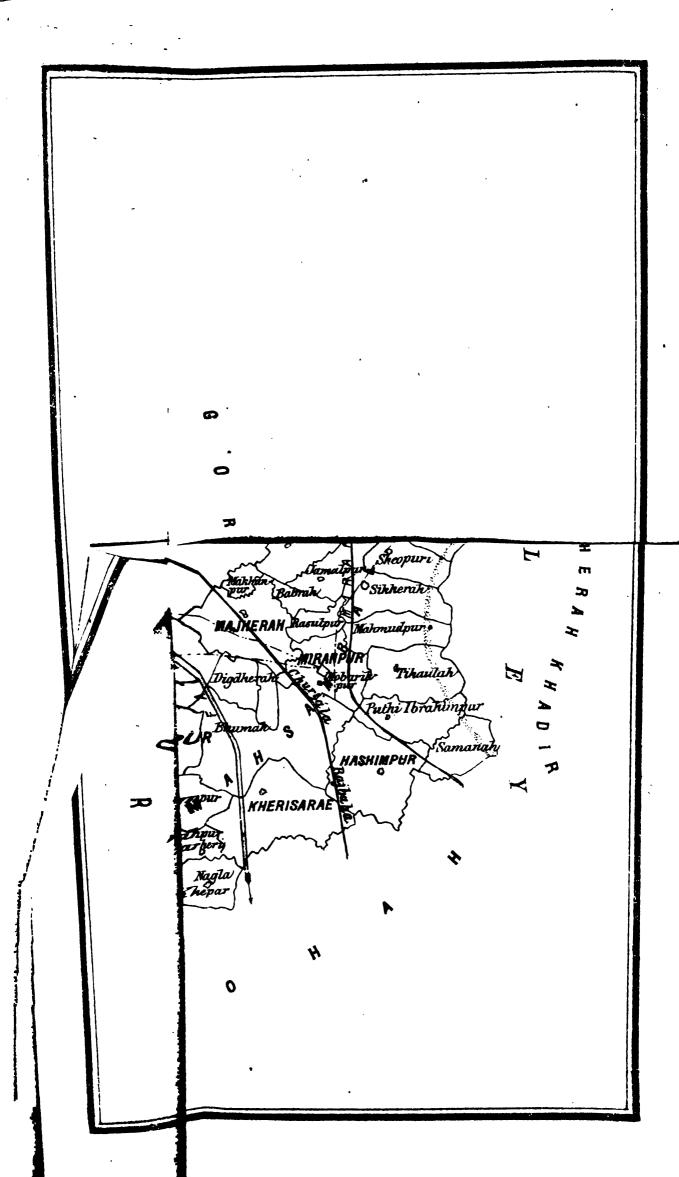
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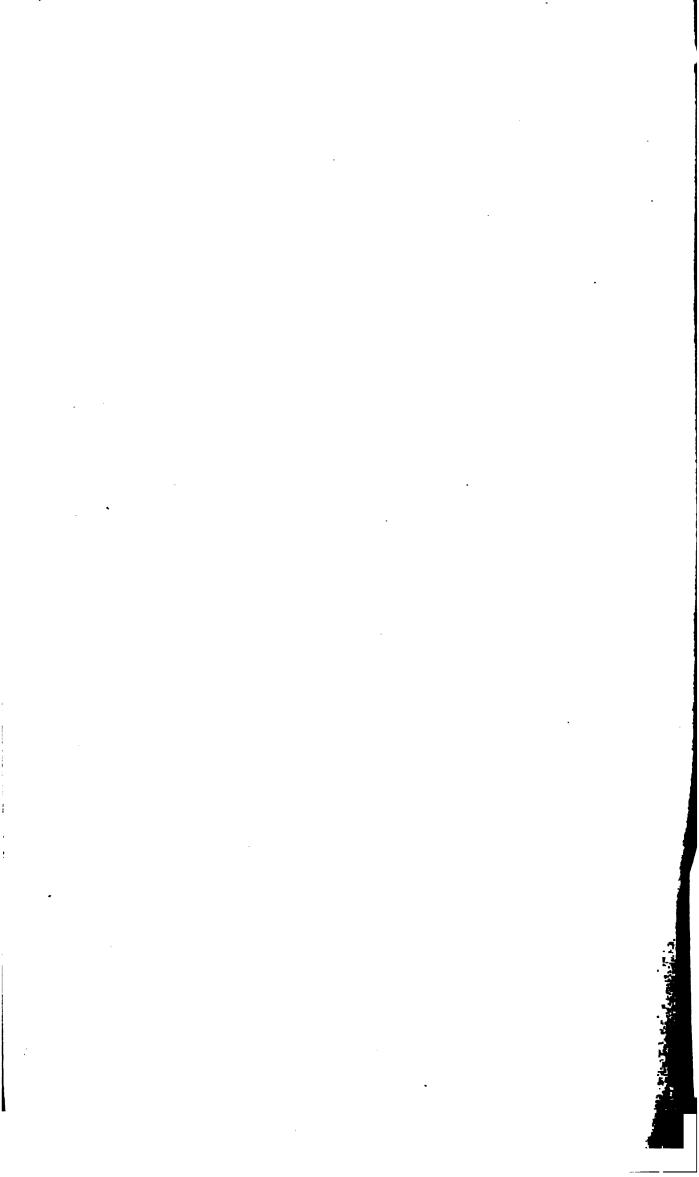
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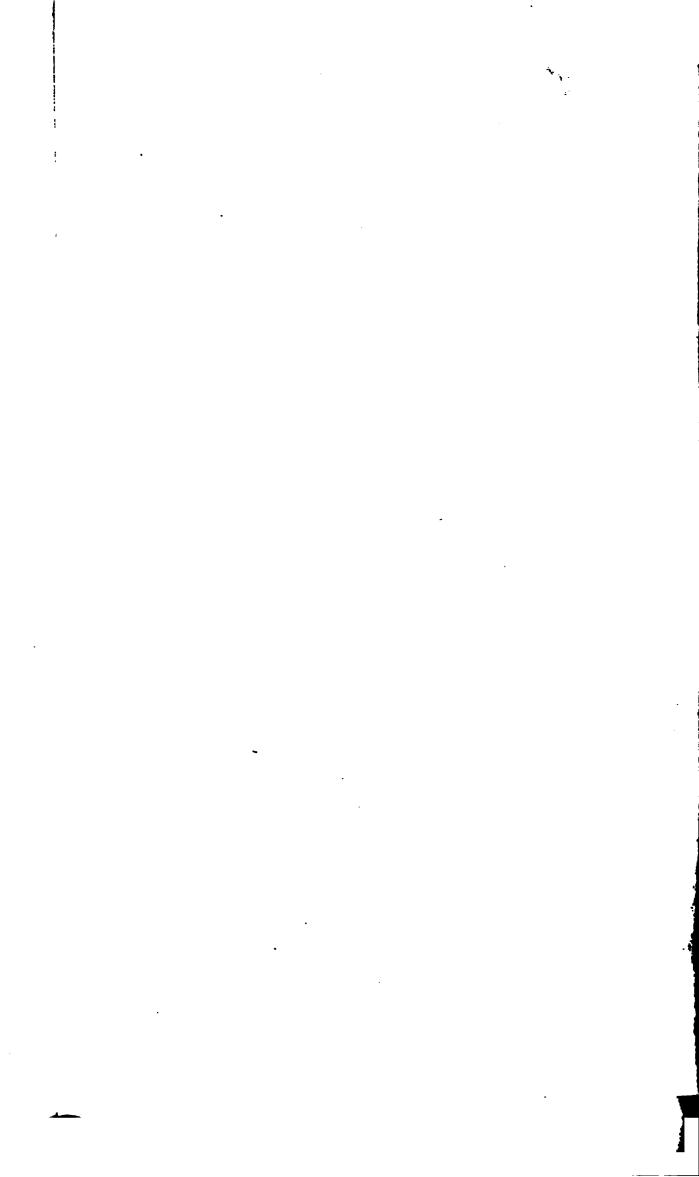
ä *		Proposed jama.		Not assessable		Assessable				on total	on total	on total		
h settleme	ني			Revenue free.		Culturable.			C	Cultivated,		Revenue o	Revenue cacre.	nae
Highest revenue of 7th settlement.	Average of last 5 years.		Total area in acres.		Old waste.	Groves.	Recent fallow.	Irrigated.	Dry.	Total cultivated.	Incidence of present area per sore.	Incidence of present assessable area per a	Incidence of present Beve cultivated area per acre.	
Rs. a. p.	Rs. a. p.	Rs. a. p.							-			Rs. a. p.	Rs. a. p.	Rs. a.
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#### ORDERS OF GOVERNMENT.

#### No. 36A. of 1882. RESOLUTION.

#### REVENUE DEPARTMENT.

Dated Allahabad, the 7th February, 1882.

READ :-

Letter from the Secretary to the Board of Revenue, North-Western Provinces, No. 1325A., dated the 12th December, 1873, submitting the settlement report of the Muzaffarnagar district and reviewing the results in the parganas not included in the Ganges Canal tract.

Letter from the Secretary to the Board of Revenue, North-Western Provinces, No.  $\frac{219}{\text{L-99}}$ , dated the 28th April, 1881, submitting the final settlement report on the Ganges Canal tract in the Muzaffarnagar district.

OBSERVATIONS.—The revision of the settlement of the district of Muzaffarnagar has occupied longer time than that of any other district in the province. Begun in 1861 it was not completed until 1875, and Mr. Cadell's settlement report was not received until 1878 by the Board of Revenue. The causes of the delay will hereafter be more fully noticed in connection with the history of settlement operations. Here it is sufficient to say that the whole district was re-assessed between the years 1861-64 by the Collectors for the time being and their Assistants, and the settlement reported in 1867 to the Government for confirmation. At that time a scheme for the permanent settlement of the Province was under discussion, and in considering the applicability of such a measure the Lieutenant-Governor, Sir William Muir, was led to question the adequacy of the lately completed settlement of Muzaffarnagar. Mr. Cadell was specially deputed to the district to report on this matter, and in 1869, in consequence of the facts disclosed by this investigation, the assessment of the eastern portion of the district was cancelled, and Mr. Cadell appointed to re-assess it. This he completed at the end of 1874, though his final report was not submitted until three years afterwards. The settlement of the western half of the district, which had been made in 1861-64, was allowed to stand, and the revenue has since been collected. on its basis. But it has never received the formal sanction of the Government, and though reported for confirmation by the Board in 1873, orders were delayed until Mr. Cadell's report on his settlement operations in the eastern tract should be submitted.

2. The materials for a general review of the economic condition of the district and of the settlement lately completed are, though ample in bulk, of very varied quality. For the western part of the district there are the reports of the assessing officers on the several parganas; a brief sketch of the general settlement of the district by the Collector; the notes made by Mr. Cadell in reporting on the applicability of a permanent settlement; and a full review by the Board of Revenue of the result of the re-settlement. Unfortunately many of these papers are from twenty to fifteen years old, and the Board's review was written eight years ago. The information therein contained is not only imperfect and scattered in character but is also to a great extent obsolete. Subjects which find a prominent place in a modern settlement report are not so much as referred to. Thus there are no statistics as to the proportion of

land respectively held by occupancy-tenants, and tenants-at-will; nor as to the amount of land held by the several castes; nor as to the average size of estates or the proportion of small to large properties. Peculiarities of tenures, whether proprietary or otherwise, are barely touched on, and the historical antecedents of the district are despatched with the briefest notice.

- For the eastern part of the district Mr. Cadell's report is all that could be wished. He has gathered up the results of his work in a clear and compact form, and has sketched the past fiscal history and present condition of the tract with sufficient fulness.
- The present review must partake of the general character of the It is impossible to criticise the settlement as a w hole, for there are not one but several settlements. In the western parganas Mr. Keene worked on one method, Mr. Auckland Colvin on another: in the east Mr. Cadell adopted a third. Again, it is difficult to present a distinct picture of the whole district at any one period. Messrs. Keene and Colvin made their assessments when the effects of the mutiny were still visible, when the great famine of 1860-61 was a thing of yesterday, and when the influence of the canal and the railways was but half felt and Mr. Cadell brought his work to a close in a inadequately appreciated. period of abundant harvests and high prices, when the district had thoroughly realised the commanding position which two canals and the railway have given it.
- It will thus be necessary to deal separately with Messrs. Keene and Colvin's settlement of the western tract, which the Board reviewed in 1873, and with Mr. Cadell's settlement of the eastern tract, which the Board have only now reported to Government. But a few preliminary remarks may be made as to the physical features and general condition of the district and its past history.
- The district of Muzaffarnagar is of oblong shape, wedged in between the Ganges and Jumna on the east and west and by the districts of Saháranpur and Meerut on the north and south. Its form is determined by the two great rivers, as, like the more northerly district of Saháranpur, it occupies the watershed between them. The flow of both rivers is due south from the hills, and as the watershed dips in the same direction, the several smaller streams which traverse it have their courses roughly parallel to the main rivers. The district is thus divided into a number of narrow strips or doabs. Starting from the west there is the Jumna-Kirsani doab, next the Kirsani-Hindan, next the Hindan-Kali; and to the extreme east the Kali-Gangetic doab.
- The total area of the district, according to the latest returns, is 1,654 square miles. Of this 930 square miles lie to the west of the Kali Nadi and comprise the area settled by Messrs. Keene and Colvin. remaining 724 square miles to the east of the Kali Nadi form the eastern tract, which came under Mr. Cadell's revision. But of this over 150

* Pargana Gordhanpur.

Pur Chapar (a portion). Bhukarheri (do.) Bhukarheri (do.) Bhuma Sambalhera (do.)

square miles are lowlying* (khádir) lands in the valley of the Ganges, which, on account of the precarious character of the cultivation, have been excluded from a regular settlement.

Mr. Cadell's report therefore deals with an area of only 569 square miles.

- Compared with the central plain of the Gangetic doab, the district of Muzaffarnagar is naturally arid and sandy. The numerous streams which traverse it have caused great inequalities of soil, and the uniformity which characterises Aligarh or Meerut is here wanting. The riverain or khádir area is, as noticed above, very large. The whole of pargana Gordhanpur, which forms the north-west corner of the district, is a great unhealthy swamp, the vestige probably of an old bed of the Ganges. In the north-east angle similar marshes, though to a less extent, have been caused by the Jumna in the desolate pargana of Bidauli. Elsewhere the khádir lands of both rivers are as a rule highly fertile, though liable to injury from the percolation of canal water. The Hindan, the Kirsani, and the Kali Nadi are similarly fringed with riverain lands, usually of extreme fertility. The soil of the uplands is a light loam, locally known as rausli, shading imperceptibly into more sandy soils  $(bh\acute{u}r)$ , and here and there interspersed with dunes of pure sand. A district belt of sand, for instance, stretches from the town of Muzaffarnagarin a south-easterly direction to the border of the Meerut district. The rausli corresponds with the dúmat of Aligarh or Mainpuri, and the piliya of Muttra, save that it probably contains more sand, and is therefore somewhat lighter in texture. With manure and water it becomes, as the patient industry of the Jats show, very fertile, but without these adjuncts the outturn is poor and precarious.
- 9. The water-level and the facilities for well-making vary greatly in different parts. Speaking generally, water lies lowest in the northern parganas, and the sub-soil is there most treacherous. Earthen wells are difficult to make and masonry wells costly. Before the introduction of canal irrigation the northern border of the district must have been treeless and waterless, and peculiarly sensitive to drought. In the south of the district the water level is generally close to the surface, and earthen wells can be easily sunk. Even without canals the parganas of Khatauli Shikarpur, Budhána, Kándhla, and parts of Shámli and Kairana could be protected against droughts by well irrigation.

The canals, however, have revolutionised the agriculture of the district, throwing wells where they existed out of use and fertilising tracts once almost waste and unproductive. On the east the Eastern Jumna Canal irrigates the country between the Jumna river and the Kirsani; on the west the Ganges Canal commands the tract between the Kali Nadi and the Ganges. Thus the central portion of the district, which comprises the Kirsani-Hindan and the Hindan-Kali doabs, is alone unirrigated by a canal. Of the parganas into which this tract is divided, Chartháwal, Bujhera, and Thána Bháwan to the north are scantly supplied with wells: the southern parganas are better off, Budhana especially being noted as one of the most highly cultivated portions of the district. The Deoband branch of the Ganges Canal, which is now under construction, will irrigate the doab between the Hindan and the Kali Nadi, and thus protect the dry tracts of Chartháwal and Bujhera.

10. The statistics of irrigation for the district are less perfect than might be wished. For the western tract (excluding Gordhanpur and the other valley lands of the Ganges) Mr. Cadell gives the irrigated area as 122,632 acres out of a total cultivated area of 263,997. Of this 113,694

acres are irrigated by the Ganges Canal and 7,989 by wells. For the eastern tract the Board's figures show 221,833 acres irrigated out of a total cultivated area of 372,829 acres. But these figures refer to 1864, and since then much new land has been brought under the plough.

- 11. The communications of the district are good: the eastern tract is traversed by the Scinde, Panjáb, and Delhi Railway, and fairly good roads connect the district with Rohilkhand on one side and the Panjáb on the other. The town of Muzaffarnagar has become the centre of a large grain and sugar trade, and the exports by road and rail are considerable. The population has increased 10 per cent. within the last nine years. In 1872 it was 690,082, and according to the recent census it is now 758,215. This gives an average of 452 to the square mile, but if allowance be made for the thinly-peopled swamps of Gordhanpur and the dhák thickets of Bidauli, the average number of inhabitants to the square mile cannot be under 500. But even on this computation the district is by no means densely populated, and in many parts the demand for labor exceeds the supply.
- The chief cultivating castes are Jats, Tagas, Rajputs, and Gujars,. though the Chamars, here as elsewhere, preponderate in numbers, and as laborers and farm hands actually perform the greater part of the work. The flourishing communities of Jats which are met with throughout the district are one of its peculiar and most pleasing features. Sometimes. they own the land; more often, having lost their rights in the last days of native or the early days of British rule, they have sunk to the condition of tenants: But in either case their industry and skill are apparent in rich crops and high class cultivation. These Jat brotherhoods are most numerous in the southern part of the district, and Mr. Cadell plausibly conjectures that they immigrated from the south and dispossessed the Rajput and the Taga septs, by whom the land was held. In the north the Rajput and Taga, along with the indolent and cattle-lifting Gujar, predominate. This is one of the reasons why the northern parganas appear so inferior to the southern, for many of the now most fertile Jat villages in the south must have been founded in what originally was little better than a sand waste.
- his narrative is generally applicable to the whole district. The distinctive feature of the local history is the rise and decay of a powerful Muhammadan clan known as the Sayyids of the Barha. Settling in the southeast of the district several generations before the time of Akbar, they rose in many instances to great eminence in the imperial service. Their lands increased with their palace influence and their repute, and before the downfall of the Mughal empire they had acquired by grant, purchase, or the voluntary acts of the village communities themselves most of the western half of the district. The Jat and Taga brotherhoods in the decay of the empire were glad to purchase protection by "commending" themselves to a strong Sayyid house. The Sayyids, however, as a rule left the village communities to manage their own affairs, contenting themselves with levying the revenues through the village headmen or mukaddams. Thus the village communities preserved their organization under

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their Sayyid masters until the second half of the eighteenth century opened with inroads of Rohillas, Mahrattas, and Sikhs. A Gujar chief, the founder of the Landhaura Raj, established himself in the north, another Gujar family ousted the Sayyids in the south, and an Afghan adventurer seized the east. The Jat and Taga brotherhoods passed into the hands of new masters. British rule brought back the Sayyids from exile, and the first years of the century witnessed a desperate struggle between the Sayyids, the Gujar chieftains, and the village communities for the proprietary ownership of the soil. In the south-east the Sayyids regained in a great measure their possessions, and the quasi-proprietary rights of the village communities were ignored and extinguished by the civil courts. In the north the Gujar semi-feudal principality was broken up, and the village brotherhoods recognised as owners of their lands. Mr. Cadell shows that many conflicting claims could have been best settled in the early days of British rule by the recognition of a superior and inferior proprietary right. A sub-settlement would have effectively preserved the privileges which the village communities had been accustomed to enjoy under the Sayyids. The neglect to do this has reduced in many cases the true owners of the soil into the position of mere tenants, and matters have not improved where the money-lender has stepped into the place of the Sayyid.

At the conquest the Sayyids in the eastern tract owned two-thirds of the area, or 239,000 acres out of 383,000. Through extravagance, indolence, and litigation they have lost one-half of this. The trading classes have acquired 102,398 acres, and the rest is owned by Jats, Tagas, Rajputs, and other cultivating castes. The eastern tract is thus owned in nearly equal parts by village communities, Sayyids, and traders. For the tract west of the Kali Nadi figures are not available.

The strength of occupancy rights in this district is remarkable. In the eastern tract half the cultivated area is held by occupancy tenants, and twenty per cent. more by proprietors as sir. Tenants-at-will thus occupy only 30 per cent. of the area. Though precise figures are wanting for the rest of the district, it is believed that occupancy tenants there The fact is the more welcome as compensating are equally numerous. in a measure for the loss by many old village brotherhoods of their unquestionable proprietary rights in the early settlements. The occupancy tenant in Muzaffarnagar is often a substantial man. His average holding is 12 acres, half of which is irrigated by the canal, and his rent does not exceed Rs. 3-8-0 an acre or Rs. 42 for the holding. He usually has an acre or two under sugarcane or fine rice, from which he pays his rent. In Aligarh or Agra the standard of rent is higher and the holdings much smaller. Nor is the tenant-at-will as badly off as elsewhere. The average size of his holding is 8 acres, and his rent is even lower than that paid by the occupancy tenant. This, however, is doubtless due to the fact that the best lands are held by the latter class of tenants. The development of canal irrigation and the comparative thinness of the population have made the district a distinctly prosperous one. "The generally comfortable circumstances of the people," says Mr. Cadell, "are shown by the goodness of their clothing and of their

food. The laborer in Muzaffarnagar dresses better than the average petty proprietor of the eastern districts, and wheat now forms a much larger proportion than of old of the food of the lowest classes."

Such, however, was not the case when settlement operations began in 1861. "The district was in a state of great depression. taken a prominent part in the disturbances of 1857, and had suffered terribly in consequence." The census showed that the population had fallen off since 1853, and the settlement officer's reports draw a graphic picture of the desolation and wretchedness which the country presented. The prostration caused by the mutiny had been further intensified by the drought of 1860 and the cholera outbreak of 1861. Many persons emigrated and a large number died of destitution and sickness. fell out of cultivation and villages were deserted. It is necessary to dwell on this, as it explains the leniency which the assessing officers showed. In the eastern part of the district the assessments were, as it will hereafter be shown, not only lenient but from the first very inadequate. In the western tract, while they leaned to the side of leniency, they were not inadequate to the conditions under which they were made, and were therefore allowed to stand. To begin with the western tract to which Mr. Cadell's revision did not extend, the figures given in para. 10 of the Board's review of 1873 show the comparative area of this portion of the district at the time of the former settlement and at the time of revision in 1861-64:--

	Total.	Barren.	Revenue- free.	Culturable.	Fallow.	Cultivated.
1841 In 1861-64	Acres. 586,258 594,525	Acres. 79,202 86,476	Acres. 40,449 27,155	Acres. 103,758 80,012	Acres. 28,053	Acres. 362,849 372,829

The increase in the cultivated area had therefore been very slight: the culturable waste was fully 100,000 acres: of the cultivated area 267,346 acres at the former settlement had been returned as irrigated: in 1861-64 the irrigated area was only 221,833 acres. If these figures were to be believed, irrigation had actually decreased. In reality this was not the case, as the former return of irrigation was admitted to be wrong. It was clear, however, that neither in extension of cultivation nor of irrigation had any great advance been made since 1840. The work of revision began in 1861, when two parganas, Budhána and Shikárpur, were assessed by Mr. Keene. In 1863 Mr. Martin assessed Baghra. The remaining seven parganas were settled by Mr. Colvin between 1861 and 1864. In pargana Kándhla alone was the demand at all perceptibly increased: in two others a slight increase was taken: while in the remaining seven the settlement resulted in a decrease. The land revenue of the previous settlement had been Rs. 7,60,692 for the ten parganas. The revised demand was Rs. 7,41,773. The net loss on the tract has thus amounted to Rs. 18,919 a year from the time the revised assessments came into force.

16. Pargana Budhána was the first pargana assessed by Mr. Keene. Lying on the Hindan, it is beyond the reach of the Eastern Jumna Canal, and until the Deoband Branch of the Ganges Canal is completed, it depends entirely on well irrigation. The spring level is in most places near the

surface and wells have been very generally constructed by the cultivating But the pargana had suffered in the drought, and Mr. Keene considered the expiring settlement to have been severe. He reduced the revenue from Rs. 75,017 to Rs. 69,846, or by Rs. 5,171. former demand had been assessed at a full two-thirds of the assets, and the assets in 1840 were estimated at Rs. 90,024. Mr. Keene's rates gave a rental of Rs. 1,39,692, an increase of Rs. 49,668, or of 55 per cent. Cultivation had increased by only 1,614 acres, or 4.8 per cent.; but he considered that prices had risen by 25 per cent., and that this justified the large increase in his assumed rental. In 1869, eight years after Mr. Keene's assessment, Mr. Cadell inspected this pargana in connection with the permanent settlement scheme. He reported that "the decrease in the assessment was in some measure due to the half-asset principle of assessment, but most of the loss to the Government revenue is unquestionably owing to excessive reduction, especially in the large estate of Jaola. * * * Besides estates like Jaola there are some of those held by bhaiáchára communities which unquestionably required relief, but in the case of which the relief has been so enormous as to leave doubt as to whether the present assessment is fitted to be other than a temporary one."

17. Pargana Shikarpur was next assessed by Mr. Keene. This pargana lies north of Budhána, and is divided by the Hindan into two unequal portions. The tract east of the Hindan is at present entirely dependent on well irrigation, though it will eventually benefit from the Deoband Branch of the Ganges Canal. That west of the Hindan is irrigated by the Eastern Jumna Canal. The pargana throughout is highly cultivated by prosperous Jat communities, and Mr. Keene found an increase of 10 per cent. in the cultivated area. Well irrigation had also increased, but exact statistics were not obtainable. The expiring settlement he considered to have been on the whole a fair one, on the basis of 65 per cent. of the existing assets. But it had lain too heavily on some of the cultivating brotherhoods. The assumed rental in 1840 had been about Rs. 1,42,000. Mr. Keene's revision at half assets assumed a rental of Rs. 2,06,600, or an increase of 45 per cent. He did not think the increase of cultivation and irrigation and the rise of 25 per cent. in average prices justified a larger increase. He admitted that he showed some consideration to the hard-working communities, which in former settlements had been severely taxed on account of their industry. "I found officials recommending high assessments on particular estates simply and solely because they were held by wealthy individuals or by industrious tribes." Against this method of assessment he rightly set his face. Mr. Cadell, in reporting in 1870 on the eligibility of estates in this pargana for a permanent settlement, showed that Mr. Keene's assessments, if generally moderate, were "only in very exceptional instances inadequate." But mistaken estimates of the value of an estate are occasionally made by even the best settlement officers, and a few such cases do not impair the general soundness of Mr. Keene's settlement. Bidauli, the next pargana taken in hand, was assessed by Mr. Colvin in 1861, under Mr. Keene's supervision. It is a desolate tract of swamp and thicket in the extreme north-west of the district, inhabited by indolent Gujars and predatory Bhaurias. For years it had been one of the most unsatisfactory

parganas of the district. It suffered from over-assessment and was further injuriously affected by the troubles of 1857-58 and the famine of 1861. "Some village sites," wrote Mr. Colvin, "show evident traces of having formed the centres of considerable life: in almost every village is to be found the decaying fort of some decayed family. Wells constructed with masonry are abundant: but while the old wells are neglected, few new ones have been built. Little by little the population has slunk away as the settlement of 1838 became more and more intolerable. * * The inhabitants, finding that even active cultivation will barely meet the revenue, have, as a rule, ceased to interest themselves in agriculture." Out of a total area of 55,616 acres only 20,544 acres were under cultivation, and the cultivated area had decreased by one-sixth. The revenue of the former settlement was Rs. 37,905. Mr. Colvin granted reductions amounting to Rs. 8,780, and the revised demand stands at Rs. 29,125. His assessments were admittedly low, and on this account engagements for twenty years only were concluded with the landholders. As the 20 years expire in 1882, it would be possible then to revise Mr. Colvin's assessments. The Board, however, recommend that the settlement be allowed to run for the ordinary term of thirty years. With this recommendation His Honor quite concurs, as he has ascertained that the pargana is still in an extremely bad condition, and that a revision of settlement would secure little or no increase of revenue.

- 18. Parganas Chartháwal, Thána Bháwan, Jhinjana, Shámli, Kairána, and Kándhla were next assessed, between 1862 and 1863, by Mr. Colvin. It will be most convenient to consider them in the order they were assessed:
- Thána Bháwan.—The Kirsani river, which intersects this pargana, divides it into two very distinct portions: the eastern tract is fully irrigated by the Eastern Jumna Canal; the western tract lies in the Doab. between the Kirsani and the Hindan, where irrigation is insufficient. Mr. Colvin found the pargana suffering from the effects of the mutiny and the famine. Thána Bháwan itself was "a city of empty houses:" the waste area was very large, and "the drought and disturbances had caused a great exodus of cultivators." Cultivation had actually decreased: in the former settlement there had been 30,361 acres under the plough: in 1861 there were only 27,692 acres. More than half the total area of the pargana was waste, though 12,000 acres of the waste were capable of cultivation. Mr. Colvin's revision increased the revenue from Rs. 56,244 to Rs. 57,081, or by Rs. 837. He admits that "his demand was perhaps a little below what the pargana is equal to. But had I put up a full demand, few villages could have paid it for the first four or five years, and the effect would probably have been to hinder the return of absentees, if not to promote the exodus." In commenting on the large extent of untilled land, especially in the unirrigated estates to the east of the Kirsani, he remarks that "much of the so-called culturable land is rain land, of a nature which at present prices would not repay cultivation, and such of it as might repay cultivation would only do so after wells had been dug and the landowners were too unenterprising to make an outlay of this nature on any large scale." Of the utility of the Eastern Jumna Canal in the western tract he spoke doubtfully: it led to

over-cropping, the land was deteriorating, the villages bordering the canal were much infected with reh. Altogether the pargana was not in 1861 in a thriving state. Nor had matters improved when Mr. Cadell inspected it in 1869: the increase in the cultivated area was almost imperceptible, and the effect of the canal was as bad as ever. Over-irrigation had so injured much land as to throw it out of cultivation, and the western tract was deteriorating rather than improving. He considered Mr. Colvin's assessment "as a rule just both to Government and the people."

- 20. Jhinjhana.—This pargana lies between Thána Bháwan on the east and Bidauli on the west, and partakes of the physical characteristics of both. On the south-east side it is fully irrigated by the Eastern Jumna Canal: on the north-west it is as ill-cultivated and desolate as Bidauli. Like Thána Bháwan, it had suffered severely in the mutiny, and the cultivated area had decreased from 29,575 to 25,011 acres. Of the total area of 60,117 acres 19,000 were either fallows or culturable waste. "The jamas," Mr. Colvin says, "have been taken up promptly, and I hope that by a moderate demand I have assisted in opening up a prosperous future for the landholders of this pargana."
- Chartháwal, the next pargana assessed, lies to the east of Thána Bháwan, and is intersected by the Hindan. One-half therefore lies in the Kirsani-Hindan Doab, and is fairly well irrigated by a rájbaha of the Bastern Jumna Canal. The eastern half belongs to the waterless Hindan-Kali doab, and will be greatly benefited when the Deoband Branch of the Ganges Canal reaches it. Hitherto it has chiefly depended on rain, as water is found at a great depth and well irrigation is difficult. Mr. Colvin thought the pargana generally depressed and disheartened, as the population had been greatly reduced by the mutiny, the drought, and malaria. Cultivation, however, had increased from 39,586 to 44,349 acres, and out of a total area of 51,846 only 7,497 were recorded as culturable waste. large unirrigated area, 29,176 acres out of 44,349 acres under plough, was the main defect. Mr. Colvin's assessment gave a revenue of Rs. 61,257 against Rs. 65,410, thus involving a decrease of Rs. 4,153. In reporting on the pargana in 1869, Mr. Cadell considered that the tract east of the Hindan, though still waterless, had improved considerably, and that the assessment was "extremely moderate." Of the canal-irrigated tract west of the Hindan he wrote that Mr. Colvin's assessments were needlessly low, and did not represent "the half-asset value of this prosperous and greatly improved tract." The Board, in noticing this criticism, argue with much force that the prosperity with which Mr. Cadell was struck was non-existent when the settlement was revised in 1861. A settlement officer, it has been repeatedly laid down, must take things as he finds them, and frame his proposals accordingly.
- 22. Shāmli.—This pargana, like Jhinjhana, to the south of which it lies, is bisected by the Kirsani. It is one of "very unequal fertility." The tract to the east of the stream is hardly reached by the canal, but the industrious Jat communities have covered it with wells. The western half is traversed by the Jumna Canal, and irrigation had extended largely

since the previous settlement. The irrigated area of the whole pargana was returned as 21,000 acres, against 10,000 in Mr. Thornton's day. On the other hand, the cultivated area showed no increase, being 45,455 acres against 45,752 at the last settlement. As the culturable waste including fallows was only 6,200 acres out of a total area of 64,767 acres, little further extension of cultivation was possible. Mr. Colvin's assessments gave a revenue of Rs. 1,20,057 against an expiring demand of Rs. 1,20,316. The decrease was therefore Rs. 259. But as he assessed at halfassets in place of two-thirds, the rental assumed by him was Rs. 2,40,114 against Rs. 1,85,102, which Mr. Thornton's settlement presumed. The 30 per cent, increase in the rental was due to the extension of irrigation and rise in prices. Mr. Cadell in 1869 found little fault with the revision. Of the tract east of the Kirsani he wrote—" the assessment is so full and fair" that, but for the proposed construction of a new canal cut, nearly all the estates might be settled permanently. Of the canal-irrigated tract west of the Kirsani he remarks that "the cultivated area is decreasing owing to the steady inroads of swamp and reh." "The land is slowly but steadily decreasing, and malaria has enfeebled the population." He also notes as an "extraordinary phenomenon" that the well-irrigated estates on the east of the stream pay higher rents than the canal-irrigated ones on the west bank. "It is difficult to overstate the injury which has been caused to the immediate neighbourhood of the canal by the short-sighted policy of deluging lowlying tracts with the sole object of collecting high water rates over a limited area."

- Kairána.—This pargana lies to the west of Shámli and to the south of Bidauli. Its western boundary is the Jumna, and the extensive riverain lands bordering that river are extremely fertile. The northern villages resemble those of Bidauli in poverty and neglect, while the south is naturally fertile and also highly irrigated by the Eastern Jumna Canal. Cultivation in the pargana had increased from 29,116 acres to 33,642, and 24,935 acres of these were irrigated. At the last settlement the entire pargana was unirrigated with the exception of 818 acres. Mr. Colvin's revision raised the revenue from Rs. 49,571 to Rs. 52,307, or by 5 per cent. He considered that the previous assessment had been very light, and that extension of irrigation and cultivation had made it lighter still. His assumed rent-rates would have given an even greater enhancement of revenue had he not intentionally gone below them. He feared lest "a sudden shock to the landlords and change in their means of subsistence would inevitably lead to distress." As the inhabitants were chiefly Gujars, who had but lately been won from indolence and cattle-lifting by the attractions of canal water, his fear was not ill-founded. Mr. Cadell, while corroborating the moderation of the assessment, fully admitted the necessity of it. "It is just the tract," he remarks, "in which of all others the effect of a sudden enhancement of the Government demand was most to be feared."
- 24. Kándhla.—With this pargana Mr. Colvin's work of assessment was completed. It lies to the extreme south-west of the district, and is bounded on the east by Budhána and on the north by Kairána and Shámli. The Eastern Jumna Canal runs through the heart of it, and

canal-irrigation is very general. The pargana is the most prosperous in the district. The cultivated area had increased from 46,599 acres to 50,329, and irrigation from 15,060 acres to 38,806. The population is dense and the villages lie close together. But neither map nor census, wrote Mr. Colvin, "can give an accurate idea of the teeming life, the innumerable wheat fields, the long stretches of cane cultivation, the busy wells, the variety of large tracts of uncultivated land, the prosperous stir of villages and agricultural towns." Mr. Colvin's settlement increased the revenue from Rs. 1,00,759 to Rs. 1,11,410, or by Rs. 10,651. The increase is 10 per cent. But his assumed rental involved an increase of 43 per cent. on the rental assumed in 1841, when two-thirds of the assets were taken. This he ascribed mainly to the great extension of irrigation. Mr. Cadell, after subjecting the assessments to a very careful examination, came to the conclusion that they were on the whole "excellent." "The general cultivation of the tract," he wrote, "is somewhat backward, and even in those estates in which a comparatively high standard has been already reached, so much consideration was shown at settlementand in order to avoid the evil effects of too sudden a rise the demand was raised so cautiously—that even now there is a large margin for enhancement. This moderation, although here and there it may be excessive, is in no way to be regretted, and the result of it will be a large increase to the capabilities of this tract, and when the period of settlement expires, a suitable addition to the Government demand."

25. Baghra.—This, the last of the ten parganas constituting the western half of the district, was assessed by Mr. Martin in 1864. Lying in the waterless Hindan-Kali doab, it ranks in poverty and backwardness with Chartháwal and Thána Bháwan. Mr. Martin speaks of the "sandy, arid soil, the absence of irrigation, the limited supply of manure, the want of capital amongst the malguzars, and the desertion of cultivators." The cultivated area had slightly increased, being 42,038 acres against 39,434 at the last settlement. But less than half of this was irrigated, and the drought of 1860-61 had "so exhausted the zamindars as to make them in many places absolutely helpless." The old demand had been Rs. 86,362; Mr. Martin reduced it to Rs. 81,691. Mr. Cadell, reporting on the pargana in 1870, considered this "considerable fall hardly necessary." But the tract must be looked at as it appeared to Mr. Martin, and his report fully bears out the policy of reducing the demand on landholders so indebted and disheartened as he describes them.

26. The result of revision of settlement in these ten parganas is shown in the appended table:—

Pargana.			Old demand.	New demand at 50 per cent.	Increase.	Decrease,	Old rate on cultivation.	New rate on cultivation.	
			Rs.	Rs.	Rs.	Rs.	Rs. a. p.	Rs.	
Budhána	•40	•••	75,017	69,846	•••	5,171	2 3 7	1 15 8	
Shikarpur	•••		1,06,052	1,03,301	•••	2,751	2 6 7	2 2 1	
Bidauli	•••	•••	87,905	29,125	•••	8,780	185	1 6 8	
Thána Bháw	an		56,244	57,081	887		1 13 7	2 0 11	
Jhinjhana	***	***	68,056	55,698		7,358	2 2 1	2 4 8	
Charthawal	***	•••	65,410	61,257	•••	4,153	1 10 5	161	
Shámli	•••		1,20,316	1,20,057		259	2 10 0	2 10 3	
Kairána	100		49,571	52,307	2,736		1112	1 8 10	
Kándhla	***		1,00,759	1,11,410	10,651	1	248	2 3 5	
Baghra	•••	***	86,862	81,691	••	4,671	2 3 0	1 15 11	
_	Total	•	7,60,692	7,41,778	14,224	83,143	2 1 6	1 15 8	

fürd Newla Before passing to the tract east of the Kali Nadi, the scene of Mr. Cadell's revision, the general principles on which Messrs. Keene, Martin, and Colvin made their assessments may be briefly noticed. culty which they had to face was the prevalence of kind rents. ever kind rents are found the uncertainties surrounding the assessing officer are doubled. He has to work out elaborate tables of the produce of the several kinds of soil, manured and unmanured, irrigated and unirrigated, loams and clays. He has next to ascertain the landlord's share, and, lastly, he has to turn it into its equivalent in money. In this way he arrives at a rough estimate of the rental of an estate. But the labour is immense and the result open to doubt. Fortunately in Muzaffarnagar the assessing officers found most of this work already done for them. Mr. Thornton, the settlement officer of the former settlement, had taken infinite pains to ascertain the average outturn of each crop on each quality of soil in each circle into which he had subdivided the parganas he assessed. On a price table of average values of produce he spent nearly as much labour. He thus arrived at general cash rents for each class of soil. Messrs. Keene, Martin, and Colvin found that they could not do better than accept his estimates of produce. Mr. Keene considered that prices had risen since 1840, and departed slightly from Mr. Thornton's price table. Mr. Colvin, believing that no rise had taken place. adopted the price table as well as the averages of produce. But all three officers, whenever they could, took Mr. Thornton's circles and deduced soil rents as the basis of their work.

> They applied of course many collateral tests. The patwaris' papers showed both the outturn and the estimated value of the landlord's share for each year. From these returns the average rent received by the landlord on each kind of crop was worked out on the average for the five years. Applying these crop rates to the cultivated area of the year of survey, an estimate of the rental could be made. This being based on the patwaris' figures proved generally too low. The village papers, it may be noticed, were considered generally untrustworthy. test was to ascertain the average area in a village under each kind of crop, and then apply Mr. Thornton's estimate of outturn.

> Messrs. Keene and Colvin's assessment reports show the care and discrimination with which they worked, and the general excellence of the result has been admitted by Mr. Cadell. Mr. Cadell, however, has criticised Mr. Colvin's method of dealing with the irrigated area, and as the Board have defended Mr. Colvin's procedure, the point deserves a brief notice. It seems that Mr. Thornton very properly drew a distinction between the irrigable land of a village and the land actually irrigated in any one year. In framing his estimates of yield he took a mean between the produce of the actually irrigated area and the produce of the irrigable but dry area. The rent-rate thus arrived at was, therefore, somewhat lower than the actually irrigated land alone would have given. He applied it to the whole irrigable area. Mr. Colvin, too, saw the necessity of taking into account the irrigable as well as the actually irrigated area. But he did so indirectly rather than directly. He assessed to wet rates the irrigated area alone, but whenever he found the irrigable

but dry area considerable, he added something to the assessment of the village. As his wet rates were based on Mr. Thornton's, and as Mr. Thornton's were admittedly mean rates, Mr. Cadell contends that Mr. Colvin should have applied them to the whole irrigable area. Theoretically Mr. Cadell appears to be right, but practically the allowance for the dry irrigable lands which Mr. Colvin made came to the same thing.

The settlement of the tract east of the Kali Nadi, which forms the subject of Mr. Cadell's report, has now to be noticed. Five of the six parganas had, along with the western tract, been assessed in 1841 by Mr. Thornton. His assessment, which was calculated at 65 per cent. of the gross assets, is thought by Mr. Cadell to have been somewhat light. But Mr. Cadell bears full testimony to the excellence of that distinguished officer's work. The sixth pargana, Bhúma Sambalhera, was assessed as part of the then Meerut district by Sir H. Elliott, and the severity of the revenue imposed by him was denoted by extensive transfers. It is unnecessary to follow Mr Cadell through the minute criticisms to which he subjects the methods of his predecessors. The general conclusion is that, with the exception of Bhúma Sambalhera, the tract "enjoyed twenty years of moderate assessments." The precarious character of much of the cultivation and the absence of irrigation naturally inclined Mr. Thornton to Out of over 220,000 cultivated acres not one in ten was irrigated. In the northern parganas the depth of the water-level practically prohibited wells: to the south, in Jansath and Khatauli, irrigation was more frequent, but the wells represented a large expenditure of capital on the part of the frugal Jat and Taga brotherhoods. But the opening of the Ganges Canal in 1854 entirely changed the face of the country, and converted Mr. Thornton's settlement from a moderate to a very light In 1861, when Mr. Martin was directed to revise it, the irrigated area had increased from 21,633 acres to 119,440 acres—the cultivated area showed an increase of 28,000 acres. The revenue assessed by Mr. Thornton had been Rs. 3,23,962. Assuming this to have represented two-thirds of the assets, the rental in 1841 must have been about Rs. 4,85,943. If irrigation be assumed to increase the average letting value of land by Rs. 2 an acre, a sufficiently moderate estimate, and a similar rent be placed upon the area added to the cultivation since 1841, the rental of 1861 might have reasonably been supposed to have augmented through irrigation and increased cultivation by a sum of Rs. 2,52,700. Mr. Martin would thus have been justified in assessing on a rental of at least Rs. 7,38,000, which would have given a revenue at half rates of Rs. 3,69,000. Had he, further, taken into account the upward movement of rents and the rise of prices, he would have arrived at a still closer approximation to the truth. As it was, his revision gave a revenue of only Rs. 3,46,908, or an increase of less than quarter of a lakh on the sum which an officer as leniently disposed as Mr. Thornton had not scrupled to impose twenty years earlier on the same tract before the canal or the railway had been thought of. With this result the Government was not unreasonably dissatisfied. The subject became the more important when the question of confirming this and other settlements in perpetuity came to be discussed. "The question is," wrote the Lieutenant-Governor in a

minute dated 26th May, 1868, "whether such a settlement can be con-And I do not hesitate to say that it cannot. It would be unfair to the exchequer and unjust to the rest of India, which expects that every district shall bear its fair assessment of land revenue, and what-if this settlement were confirmed-was lost here would virtually be thrown as a burden upon the people themselves." In 1870 a conference was held at Meerut by the Lieutenant-Governor. "The opinion of all present was unanimous, that the assessment on these six parganas is inadequate, and that the inadequacy existed at the time when the assessment was framed; that consequently there should be a revision of the Government demand, preceded by a testing and correction of the entries of soil and irrigation. In this opinion the Lieutenant-Governor concurs. Mr. Cadell has supported his conclusions in every pargana by illustrations of specific estates in which the actual assets are disproportionately in excess of the revenue assessed on them. dence from these statements appears to the Lieutenant-Governor to prove conclusively that the assessment was originally inadequate and * * 'The new assessments will should now be disallowed. be based on existing assets, and will run, as proposed by Mr. Inglis, for the same period as the present settlement, so as to expire at the same time with it' (Resolution No. 118B., dated 25th March, 1870.)

30. The above extracts will sufficiently indicate the reasons which seemed to render the revision of Mr. Martin's settlement unavoidable. Mr. Cadell's assessment gives a revenue of Rs. 4,41,093, which exceeds by Rs. 94,185 Mr. Martin's and by Rs. 1,17,131 Mr. Thornton's settlement. The extent to which Mr. Cadell enhanced the demand in the several parganas is shown in the annexed table:—

				(1) Mr. Thornton's assessment (1841).	(2) Mr. Martin's (1861).	(3) Mr. Cadell'e (1871).	Increase of (8) over (2).
				Rs.	Rs.	Rs.	Rs.
Purchapar		•••		56,803	59,264	69,550	17 per cent.
Muzaffarnagar	•••	•••		59,849	71,683	82,160	14 ,,
Bhakarheri		•••		47,001	55,946	74,311	82 ,,
Jauli Jansath	•••	100		56,418	58,495	81,110	88 ,,
Khatauli	100	***		68,171	65,829	88,106	83 ,,
Bhúma Samball		•••		85,715	85,691	45,856	28 ,,
		Total		3,23,962	3,46,908	4,41,093	27 per cent.

As the errors discovered in Mr. Martin's settlement arose chiefly from defective statistics of soils, crops, and irrigation, which had been compiled by an untrained and badly supervised subordinate staff, Mr. Cadell's first duty was to revise the maps and the settlement record of each village. The work proved more extensive than had been anticipated. Many maps had been so incorrectly prepared that they had to be redrawn after a resurvey. Even where they had originally been accurate, they were found in 1870 to have become virtually obsolete. The khasras inspired equally little confidence, and every entry had to be tested before accurate rent-rolls and soil areas could be prepared. Mr. Cadell is silent as to the capacity of the patwaris of the district, but it is clear that, here as elsewhere, the most accurate settlement record would have been allowed by neglect and supineness to have become obsolete in a very few

years. One of the merits which Mr. Cadell justly claims for his work of revision is that it has substituted a correct for an incorrect record. But were the patwari system on the same footing that it was in 1870, there is great reason to suppose that all this labour and expense would have been absolutely thrown away. Under the present arrangements for the better supervision of patwaris there is now a reasonable chance that the settlement maps and records will be kept up to date, and enable a subsequent revision of the revenue to be made with comparative ease.

In classifying the soils Mr. Cadell departed in one important respect from his predecessors. In the settlement of 1841 not only had manured land been distinguished from non-manured, but a third class, comprising land which occasionally received manure, had been recognised. centrally situated districts of the Gangetic doab these three classes of land usually form three concentric circles round the village site, and it is rare for the outermost circle to receive any manure at all. known fact has enabled the assessing officer to frame varying rates of rent for his home, middle, and outlying lands, and the manure circle is the basis of his system. In Muzaffarnagar, however, the large extent of cane cultivation rendered such a classification impossible. crop "wanders over the whole irrigable area" of a village, and the available manure of the cultivator goes to his cane field. In this way nearly every acre in rotation receives its share of manure, and classification of soils into manured and unmanured becomes impossible. Mr. Cadell, therefore, abandoned the attempt to secure an accurate entry of manured land, though in each village its general extent appears to have been noted for the assessing officer's guidance.

The soils were thus classified according to their natural qualities. Loams fell under the heads of first and second class rausli, the more sandy soils appearing as bhúr. The irrigated area was carefully recorded, and this introduced subdivisions of irrigated and unirrigated lands. Estates were further grouped into three classes of best, average, and inferior estates, with the view that each class should present tolerably homogeneous features. The classification completed, Mr. Cadell proceeded to educe a rent-rate for each variety of soil in each circle from the rents ascertained to be paid upon them. In arriving at his rates he followed the usual practice of eliminating from the rent-rolls all rents which obviously were abnormally low or high. The table on page 83 of the report exhibits the average rates of rent thus ascertained and the rates finally assumed for the purpose of assessment. For first-class irrigated loam the rate varied from Rs. 6 an acre in estates of the first class to Rs. 4-8-0 in those of the third. For dry bhúr, the poorest description of soil, the rate was from Rs. 2 in first-class estates to 12 annas in those of It is unnecessary to enter into further details, as they are fully given in the body of the report. The revenue was assessed at half the rental obtained by applying these rent-rates, and the incidence of the

Rs. a. p. Rs. a. p. revenue on the cultivated

Púrchspar ... 1 10 3 | Jauli Jansath ... 1 9 0 area of each pargana is

Muzaffarnagar Bhúkarheri ... 1 9 8 | Bhúma Sambalhera ... 1 4 0 shown in the margin.

Centraly Much. Milly n G. Don

- That Mr. Cadell's assessment is a moderate one appears from several considerations. The revenue imposed by him exceeds Mr. Thornton's demand by Rs. 1,17,131, or 34 per cent. But in the interval between 1841 and 1871 the cultivated area had increased by 19 per cent., while the irrigated area had more than quadrupled. The immense change effected by the canal is well brought out in the comparative statement given on page 70 of the report. In 1841 irrigation was confined to 21,633 acres, of which 19,000 lay in the two southern parganas of Jansath and Khatáuli. In the whole pargana of Púrchapar all but 53 acres were waterless; and Bhúkarheri and Bhúma Sambalhera were nearly as The sandy character of the soil intensified the evil, and it is no exaggeration to say that the northern parganas were always exposed to the dire effects of drought. In 1871 the irrigable area was returned at 122,632 acres, of which 113,694 acres depended on the canal, 7,939 on wells, and 949 on ponds and tanks. In the famine year of 1868 the canal supplied water to 128,000 acres, so that half the area ordinarily under cultivation is now placed beyond the reach of drought. In Purchapar alone 24,853 acres in that disastrous year received canal water, which thirty years before on a similar failure of the rains would have been absolutely sterile. The agricultural wealth which in 1868 alone the canal created in the district may be inferred from these figures.
- 33. Apart from the stability thus given to agriculture since 1841, the canal has largely extended the area under high-class crops. The amount of land under cane and cotton has been doubled, that under wheat and garden crops considerably increased, and a species of fine rice known as munji, which was then unknown in the district, is now extensively grown. The area under cane is now  $6\frac{1}{2}$  per cent. of the total cultivation of the six parganas, and in the rich pargana of Khatáuli one acre in every ten is now under this profitable crop. In an interesting paragraph Mr. Cadell shows that in this pargana alone the substitution of canal for well water over some 7,000 acres has set free bullock power sufficient for a single ploughing of 31,000 acres of land (page 70), and it may be reasonably conjectured that to this accession to the capital at the agriculturist's command the extension of the area under sugarcane may be chiefly assigned.
- 34. These considerations show that a considerable increase on the assessments of 1841 was in simple justice to the State required Mr. Cadell's settlement. But even stronger evidence is supplied by actual rental of the tract. The revenue assessed by him is Rs. 4,41,093, which assumes a rental of Rs. 8,82,186. In 1868 the rental returned by the patwaris was Rs. 8,65,040: this in 1873 had risen to Rs. 9,34,326, and it is no doubt to-day considerably higher. It appears that at the time of Mr. Martin's settlement the rents were mainly paid either in kind or on the crop (zabti), but in the years immediately succeeding his revision they were extensively commuted to cash rents. The result was that between 1863 and 1868 the rental rose from Rs. 6,67,000 to over  $8\frac{1}{2}$  lakhs. Instances were discovered by Mr. Cadell of rentals three and four times greater than the revenue assessed in 1861. In one village the recorded rental was Rs. 4,000, and the revenue Rs. 1,300: in another, of which

the revenue was Rs. 1,900, the rent-roll, according to the lowest calculation, was not less than Rs. 6,000 or Rs. 7,000.

- 35. The latter portion of Mr. Cadell's report deals with the preparation of the record-of-rights, the disposal of enhancement cases, and other subsidiary matters. The method in which enhancement suits were dealt with is described at page 113, and great care appears to have been taken to adjust them by amicable agreement between the parties. Equal labour was expended in recording the respective rights and privileges of landlords and tenants as admitted by them. The right of occupancy-tenants to plant trees on their holdings, though not formally secured by law, is often conceded by landlords in districts where tenant-right is strong, and this has particularly been the case in Muzaffarnagar. The tenantry there are frequently descendants of the former owners of the land, and the efforts made by Mr. Cadell to obtain the recognition of their legitimate rights in this and other points cannot be too highly commended. It is satisfactory to find that in this difficult matter he managed generally to earry both parties along with him.
- The lengthy digression on the principles of canal management in which Mr. Cadell has indulged is somewhat out of place in a settlement report, but the question is so important, and forms so prominent a feature in the revenue administration of the district, that it can hardly be passed unnoticed. Briefly, Mr. Cadell shows that in the alignment of the main arteries and of the distributaries of both the Ganges and Jumna Canals serious mistakes were made, which materially detract from the utility of these noble works. Water has been taken to tracts already sufficiently protected by wells, whilst often the poorest and driest tracts have been avoided. The economy in labour which results from the substitution of canal for well water has been already noticed, but the gain is even greater where the canal is taken into unirrigated land. Nor can the damage which excessive canal-irrigation causes to lowlying estates with an already moist soil be overlooked. It is, however, only due to the canal authorities to say that at the present day they are as fully alive as Mr. Cadell to the evils of which he complains, and the mistakes of the early days of canal construction are not likely to be repeated. maxim is now generally admitted that it is better to irrigate a limited area in many villages than a large area in few, and to supplement rather than supersede irrigation by wells. That drainage should go hand in hand with canal extension is an accepted principle, and in Muzaffarnagar itself many of the waterlogged estates which are mentioned by Messrs. Keene, Colvin, and Cadell have been thoroughly drained and reclaimed by the Canal Department. On the subject of occupiers' and owners' rates Mr. Cadell's views are in general accord with those now accepted by the administration. Experience has shown that too low a price was put on canal water in the early years of the canals, and by the growth of rents a great portion of the profit, which higher water-rates would have secured to the State, has been intercepted by the landlords. Of this fact the rapid rise in the rental of the Muzaffarnagar district between the years 1861-1871 is a striking proof. The revision of the land revenue assessments has enabled the Government to share in the gains of the landholding

classes, though not to the extent to which it is strictly entitled, or which it might have obtained had the rise of rents been prevented by the imposition of higher water rates. This principle has been recognised on the more recent Agra Canal, and a further improvement has been made in assessing the owners' rate in those districts irrigated by it which have lately come under re-settlement.

- Mention has already been made (para. 7) of pargana Gordhanpur, lying to the extreme north-east of the district between the Ganges Canal and the Ganges river, which has been excluded from a regular settlement. an appendix to his report Mr. Cadell deals with the history of this swamped tract and the causes of its deterioration. In a measure the mischief may probably be augmented by the percolation of canal water from the higher levels, but the immediate cause was unquestionably the diversion of the Solani river from its old channel into the line of marshes which have always existed in the pargana. A considerable expenditure has from time to time been incurred on drainage works, more in fact than the small amount of revenue at stake might seem to justify. the work of reclamation has not been very successful, and for the present the only plan is to continue to settle the thirty-six estates in question on triennial leases, as ordered by G. O. No. 720A., date d1st May, 1877: they are unsuited to any system of fixed assessment for a longer term of years. The revenue derived from them amounts to the comparatively insignificant sum of Rs. 5,000 or Rs. 6,000 a year.
- To return to the settlement of the district as a whole. The several matters connected with these disconnected and protracted operations have been sufficiently noticed, and the sole point which remains for consideration is the term for which the settlement should be sanctioned. western half of the district came under re-settlement in 1861, and if the ordinary term of thirty years be thought applicable, the present settlement will expire in 1891. The assessments may be somewhat light, but considering the long duration of settlement operations in the district, Sir George Couper would confirm them until 1891. For the reasons stated in para. 17 he would extend the same term to the backward pargana of In regard to the eastern half, which came under Mr. Cadell's revision, His Honor would similarly confirm the revised assessments until 1891. There are obvious advantages in placing a district under the same period of settlement, and though Mr. Cadell's assessments may possibly not require much revision ten years hence, it might be found desirable to place the portion of the revenue due to canal-irrigation on a different basis. His Honor the Lieutenant-Governor would, therefore, request the Government of India to sanction the above proposals.
- 39. The financial result of the settlement has been a loss of Rs. 18,919 on the western half of the district, and a gain of Rs. 1,17,131 on the eastern side, giving a net gain of about one lakh. The cost of the settlement, as a whole, cannot be accurately stated, as complete details are wanting of the expenditure in the years preceding Mr. Cadell's deputation to the district in 1870. The cost of his revision alone was Rs. 1,56,972, and the sums expended during the ten preceding years must have been

considerable. Still more considerable must have been the indirect cost of the settlement from first to last to the district. The revision of 1870, it has been shown, was forced upon the Government, but the evils attending such a measure must be fully recognised. That it was extremely irksome to and unpopular among the people, and unsatisfactory to the revising officer, as Mr. Cadell himself admits, cannot be doubted, and it was made worse by the utter confusion into which the maps and village records had been allowed to fall. In considering the settlements effected during the last twenty years in Bijnor and some other districts, Sir George Couper has had reason to comment on the interminable length of the proceedings, and to express an earnest hope that any future revision of the settlements will be conducted on more accurate data and in a more expeditious manner. His Honor is glad to see that the same view has been taken by the Supreme Government in its recent Resolution on settlements. The obvious remedy, as is pointed out in the orders referred to, is the accurate maintenance of the settlement record through the agency of the patwaris and the kanungo, and Sir George Couper is happy to think that this is now more feasible than it has been hitherto. If this end alone is accomplished by the Agricultural Department of the province, it will amply justify its existence and fully recoup the State for any sums expended on its organisation. In the Muzaffarnagar district Mr. Cadell has left an excellent record-of-rights, and there is no reason why with due care it should not furnish a sufficient basis for assessment on the revision of the present settlement.

C. ROBERTSON,
Secy. to Govt., N.-W. P. and Oudh.

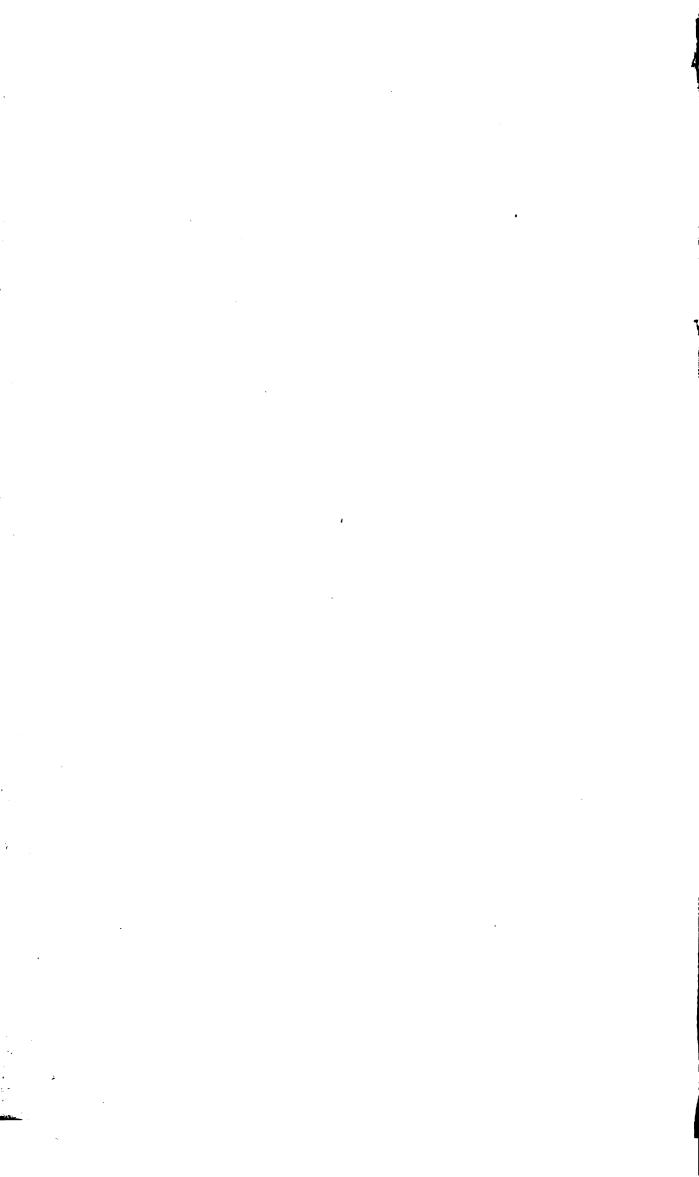
ORDER.—Ordered, that a copy of this Resolution be forwarded to the Secretary, Board of Revenue, North-Western Provinces, for the information of the Senior Member, with reference to his letters Nos. 1325 A. and  $\frac{219}{1.99}$ , dated respectively the 12th December, 1873 and 28th April, 1881.

Ordered, also, that a copy of this Resolution and of the reports be forwarded to the Secretary to Government of India, Revenue and Agricultural Department, with the recommendation that the settlement of the district now reported be confirmed for thirty years.

By order, &c.,

C. ROBERTSON.

Secy. to Govt., N.-W. P. and Oudh.



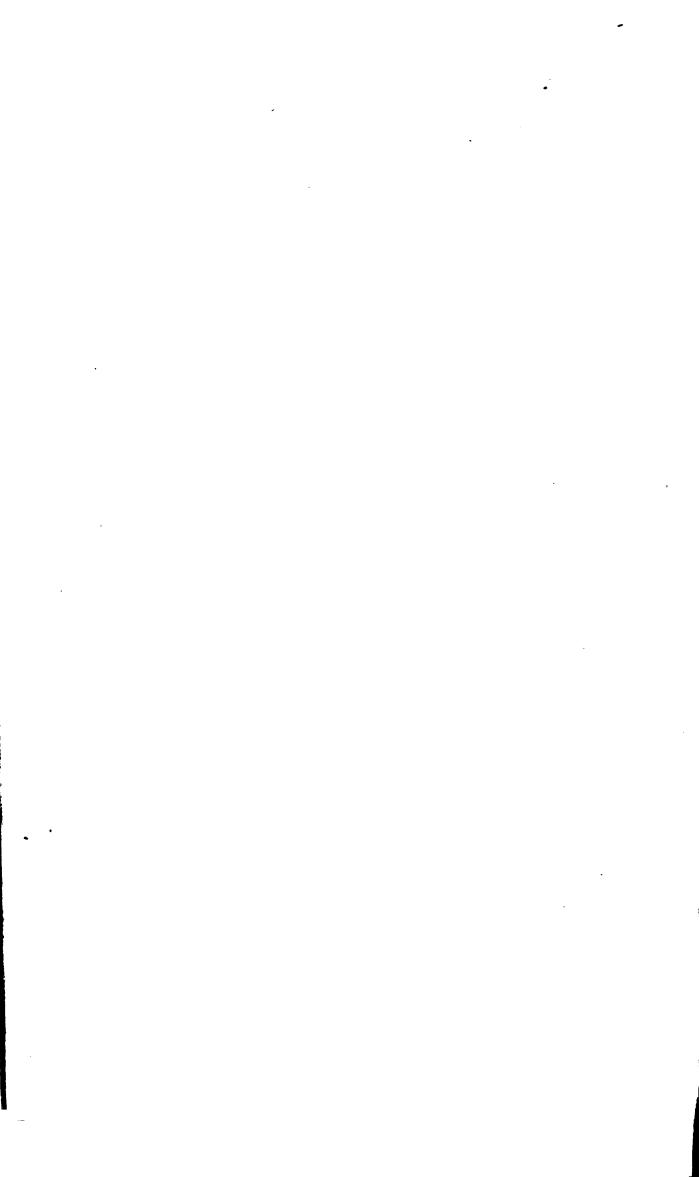
Extract from a letter from E. C. Buuk, Esq., c.s., Secretary to the Government of India, Revenue and Agricultural Department (Revenue), to the Secretary to Government of the North-Western Provinces and Outh, No. 166R., dated Simla, the 24th April, 1882.

* The Governor-General in Council sanctions the recommendation of the Local Government, that the settlement should be confirmed up to 1891, for the entire district, with the exception of the swamped estates in pargana Gordhanpur, which are understood to be under annual settlement.



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